

STN +
Author.

FILE 'HSE' ADDED. ADDED TO: HSE

File Size:

COST IN U.S. DOLLARS

SINGLE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REHISTRY' ENTERED AT 10:25:57 ON 17 AUG 2002

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FILE 'HSE' FOUND IN THE STN DATABASE

FILE INFORMATION: FILE 'HSE' IS A SEARCHABLE FILE

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File 'HSE' is a searchable file in the STN database.

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<http://www.cas.org/STN/STNFILES/stnnotes27.pdf>

=>

Uploading 09:99421 Intern.stn

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01 HSE

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19. The nineteenth of the two cases is the case of a
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=> FILE REGISTRY

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

184.04

284.25

FILE 'REGISTRY' ENTERED AT 10:28:01 ON 27 AUG 2002
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STRUCTURE FILE UPDATES: 15 AUG 2002 HIGHEST EN 444874-82-2
DICTIONARY FILE UPDATES: 15 AUG 2002 HIGHEST EN 444874-82-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2012

Please note that search-term pricing does apply when
conducting SMARTSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:
<http://www.cas.org/CALINE/STN/STNOTES/stnotes27.pdf>

=> SET THRESHOLD#

SET COMMAND COMPLETED

=> DEL SHLY

=> SEL LG 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

LE 1 22293-11-4/RN

=> SET THRESHOLD LOGIN

SET COMMAND COMPLETED

=> FILE CAPIUS

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.46

284.71

FILE 'CAPIUS' ENTERED AT 10:28:06 ON 27 AUG 2002
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FILE COVERS 1997 - 27 Aug 2002 VOL 137 ISS 9
FILE LAST UPDATED: 15 Aug 2002 (20020-15/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SRI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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16 16 1-3 111 115 115 115

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22293-11-4

Page 1 of 1
Date: 10/10/2019
Time: 10:10:10 AM
User: admin

=> a his

(FILE 'HOME' ENTERED AT 10:22:53 ON 27 AUG 2002)

FILE 'REGISTRY' ENTERED AT 10:23:37 ON 27 AUG 2002

L1 STRUCTURE UPLOADED
L2 1 S L1 FUL
L3 STRUCTURE UPLOADED
L4 1 S L3 FUL

FILE 'REGISTRY' ENTERED AT 10:28:01 ON 27 AUG 2002

SET TERMSET E#
DEL SEL Y
SEL L4 1 RN
L5 1 S E1/RN
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:28:06 ON 27 AUG 2002

L6 3 S L5

=> s 12 ful
L7 1 S L2

=> s process:
L8 28156 1 PROCESS?

=> s 18 and L7
L9 12 L6 AND L7

=> s oxidiz?
L10 346246 OXIDIZ?

=> s 19 and L10
L11 0 L9 AND L10

=> s 19 not L5
L12 12 L9 NOT L5

=> s 19 not L4
L13 12 L9 NOT L4

=> d 19 1-12 krib aps hitstr

[illegible][illegible]

PATENT NO.	CODE	DATE	APPLICATION NO.	DATE
WO 2000/038555	A1	20000216	WO 2001/038597	20010427
MY: US FW: AT, BE, CH, CY, DE, ES, FI, FR, GB, GR, IE, IT, JP, MC, NL, PT, SE, TR NL: 11474 PROPRIETARY RIGHTS: CONFIDENTIAL POWER OF ATTORNEY: Attached as ANNEX 1				

[illegible]

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

$$\frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

10

$\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

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408329-65-7P

408329-65-7P

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in the YEA medium for 24 h at 28 °C. The cell concentration of the strains was adjusted to 10⁸ cells/ml. The cell suspension was mixed with the plant tissue and the transformation efficiency was determined. The results were expressed as the mean ± SD of three independent experiments. The different letters indicate significant differences (*P* < 0.05) according to the Duncan's multiple range test.

$\sigma_{\text{eff}} = 1.1 \times 10^{-28} \text{ cm}^2$ (for $\sigma_{\text{eff}} = 1.1 \times 10^{-28} \text{ cm}^2$ and $\sigma_{\text{eff}} = 1.1 \times 10^{-28} \text{ cm}^2$)

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

© 2000 Blackwell Science Ltd *Journal of Internal Medicine* 247: 101–107

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

100

$$E_{\text{max}} = 100 \times \frac{C_{\text{max}} - C_{\text{min}}}{C_{\text{max}}} \quad \text{CV} = \frac{\text{SD}}{\text{mean}} \times 100 \quad \text{SD} = \sqrt{\frac{\sum (C_i - \bar{C})^2}{n-1}} \quad \text{SD} = \text{standard deviation} \quad \bar{C} = \text{mean}$$

100

$$\begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{H} \end{array} \quad \begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{H} \end{array} \quad \begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{H} \end{array} \quad \begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{H} \\ | \\ \text{H} \end{array}$$
$$E_{\text{max}} = 100 \times \frac{C_{\text{max}} - C_{\text{min}}}{C_{\text{max}}} \quad \text{and} \quad \text{CV} = \frac{\text{SD}}{\text{mean}} \times 100 \quad \text{with} \quad \text{SD} = \sqrt{\frac{\sum (C_i - \bar{C})^2}{n-1}} \quad \text{and} \quad \bar{C} = \frac{\sum C_i}{n}$$

1. *Journal of the American Statistical Association*, 1997, 92, 1029-1038.

1536, 1537

408521-25-5P

1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

$$f_{\text{eff}} = \frac{1}{2} \left(\frac{1}{f_{\text{eff}}^{\text{L}} + \frac{1}{f_{\text{eff}}^{\text{R}}}} \right) \quad (1)$$

— 8 —

Year	1990	1991	1992	1993	1994	1995
1990	100	100	100	100	100	100
1991	100	100	100	100	100	100
1992	100	100	100	100	100	100
1993	100	100	100	100	100	100
1994	100	100	100	100	100	100
1995	100	100	100	100	100	100

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211

[illegible][illegible]

$\rho = \frac{m}{V}$, $\frac{\partial \rho}{\partial t} + \nabla \cdot (\rho \mathbf{v}) = 0$, $\mathbf{J}_e = -en_0 \mu \nabla \phi$

Figure 7

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$$H_0 = \{ \beta_0 = 0, \beta_1 = 0, \beta_2 = 0, \beta_3 = 0, \beta_4 = 0, \beta_5 = 0, \beta_6 = 0, \beta_7 = 0, \beta_8 = 0, \beta_9 = 0, \beta_{10} = 0, \beta_{11} = 0, \beta_{12} = 0, \beta_{13} = 0, \beta_{14} = 0, \beta_{15} = 0, \beta_{16} = 0, \beta_{17} = 0, \beta_{18} = 0, \beta_{19} = 0, \beta_{20} = 0, \beta_{21} = 0, \beta_{22} = 0, \beta_{23} = 0, \beta_{24} = 0, \beta_{25} = 0, \beta_{26} = 0, \beta_{27} = 0, \beta_{28} = 0, \beta_{29} = 0, \beta_{30} = 0, \beta_{31} = 0, \beta_{32} = 0, \beta_{33} = 0, \beta_{34} = 0, \beta_{35} = 0, \beta_{36} = 0, \beta_{37} = 0, \beta_{38} = 0, \beta_{39} = 0, \beta_{40} = 0, \beta_{41} = 0, \beta_{42} = 0, \beta_{43} = 0, \beta_{44} = 0, \beta_{45} = 0, \beta_{46} = 0, \beta_{47} = 0, \beta_{48} = 0, \beta_{49} = 0, \beta_{50} = 0, \beta_{51} = 0, \beta_{52} = 0, \beta_{53} = 0, \beta_{54} = 0, \beta_{55} = 0, \beta_{56} = 0, \beta_{57} = 0, \beta_{58} = 0, \beta_{59} = 0, \beta_{60} = 0, \beta_{61} = 0, \beta_{62} = 0, \beta_{63} = 0, \beta_{64} = 0, \beta_{65} = 0, \beta_{66} = 0, \beta_{67} = 0, \beta_{68} = 0, \beta_{69} = 0, \beta_{70} = 0, \beta_{71} = 0, \beta_{72} = 0, \beta_{73} = 0, \beta_{74} = 0, \beta_{75} = 0, \beta_{76} = 0, \beta_{77} = 0, \beta_{78} = 0, \beta_{79} = 0, \beta_{80} = 0, \beta_{81} = 0, \beta_{82} = 0, \beta_{83} = 0, \beta_{84} = 0, \beta_{85} = 0, \beta_{86} = 0, \beta_{87} = 0, \beta_{88} = 0, \beta_{89} = 0, \beta_{90} = 0, \beta_{91} = 0, \beta_{92} = 0, \beta_{93} = 0, \beta_{94} = 0, \beta_{95} = 0, \beta_{96} = 0, \beta_{97} = 0, \beta_{98} = 0, \beta_{99} = 0 \}$$
$$1.5^{\circ} \leq \alpha \leq 2.5^{\circ}, \quad \alpha \neq 2^{\circ} \quad (11)$$

14. ANSWER: 1.16. 1.16 CAPLOS COPYRIGHT © 1994. ALL RIGHTS RESERVED.
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14. FORM 10

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51 34

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100	100	100

=> lll reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

72.26

356.97

DISCOUNT AMOUNTS FOR QUALIFYING ACCOUNTS:

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-9.29

-9.29

FILE 'REGISTRY' ENTERED AT 10:32:51 ON 27 AUG 2002

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STRUCTURE FILE UPDATES: 25 AUG 2002 HIGHEST EN 444874-82-2

DICTIONARY FILE UPDATES: 25 AUG 2002 HIGHEST EN 444874-82-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2001

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
for more information. See STNote 27, Searching Properties in the CAS
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

uploading 09899411 end2.str

L14 STRUCTURE UPLOADED

=> d

L14 HAS NO ANSWERS

L14 STF

cb1

G1 N

H

Hy2

G1 [01],[02]

Structure attributes must be viewed using STN Express query preparation.

=> s l14 ful

FULL SEARCH INITIATED 10:33:16 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 65760 TO ITERATE

100.0 PROCESSED 65760 ITERATIONS
SEARCH TIME: 01.00.16

570 ANSWERS

11 17 SEA SSX FUL L14

11 111 caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	140.28	497.25
DISCOUNT AMOUNTS FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-9.29

FILE 'CAPLUS' ENTERED AT 10:33:37 ON 27 AUG 2002
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FILE COVERS 1907 - 27 Aug 2002 VOL 137 ISS 9
FILE LAST UPDATED: 25 Aug 2002 (20020825/ED)

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CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

-> s 115/p
11 115 L15/P

-> s his

(FILE 'HOME' ENTERED AT 10:22:53 ON 27 AUG 2002)

FILE 'REGISTRY' ENTERED AT 10:23:37 ON 27 AUG 2002

11	STRUCTURE UPLOADED
12	536 S L1 FUL
13	STRUCTURE UPLOADED
14	1 S L3 FUL

FILE 'REGISTRY' ENTERED AT 10:28:01 ON 27 AUG 2002

SET TERMSET E#
DEL SEL Y
SEL L4 1 RN
L15 1 S E1/PN
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:28:06 ON 27 AUG 2002
L6 3 S L5
L7 123 S L2 FUL
L8 2815651 S PROCESS?
L9 12 S L8 AND L7
L10 346.40 S GXIB12?
L11 0 S L9 AND L10
L12 11 S L9 NOT L5
L13 11 S L9 NOT L4

FILE 'REGISTRY' ENTERED AT 10:32:51 ON 27 AUG 2002
L14 STRUCTURE UPLOADED
L15 570 S L14 FUL

FILE 'CAPLUS' ENTERED AT 10:33:37 ON 27 AUG 2002
L16 150 S L15/P

=> s l2 ful
L17 126 L2

=> s l17 and l16 ful
L18 1 L17 AND L16

=> s l18 ibib abs hitstr

10:14

FILE 'HOME' ENTERED AT 10:11:13 ON 27 AUG 2002)

FILE 'REGISTRY' ENTERED AT 10:13:57 ON 27 AUG 2002

L1 STRUCTURE UPLOADED
L2 100 S L1 FUL
L3 STRUCTURE UPLOADED
L4 1 S L3 FUL

FILE 'REGISTRY' ENTERED AT 10:18:01 ON 27 AUG 2002

SET TERMSET E#
DEL SEL Y
SEL L4 1 FN
L5 1 S E1/FN
SET TERMSET LOGIN

FILE 'CAPLUS' ENTERED AT 10:28:06 ON 27 AUG 2002

L6 3 S L5
L7 126 S L2 FUL
L8 2819651 S PROCESS?
L9 12 S L8 AND L7
L10 346240 S OXIDIZ?
L11 0 S L9 AND L10
L12 12 S L9 NOT L5
L13 12 S L9 NOT L4

FILE 'REGISTRY' ENTERED AT 10:32:51 ON 27 AUG 2002

L14 STRUCTURE UPLOADED
L15 570 S L14 FUL

FILE 'CAPLUS' ENTERED AT 10:33:37 ON 27 AUG 2002

L16 150 S L15 F
L17 126 S L1 FUL
L18 1 S L17 AND L16 FUL

=> s oxaziri?

L19 1013 OXAZIRI?

=> s l19 and l16

L20 110 L19 AND L16

=> s prepar?

1356649 PFEPAR?
101503 PFEP
1775 PREPS
103091 PFEP
(PREP CR PREPS)
1759795 PFEPD
21 PFEPDS
1759810 PFEPD
(PREPD CR PREPDS)
64210 PFEPG
12 PFEPGS
64221 PFEPG

(PREPG OR PREPGS)
L1 244-1 PREPN
L1 244-2 PREPNS
L1 244-3 PREPN
L1 244-4 PREPN OR PREPNS
L1 244-5 PREPAR?
(PREPAR? OR PREP OR PREPD OR PREPG OR PREPN)
L1 244-6 OF LIMIT FOR TOTAL ANSWERS REACHED
L2 121 and 120
L22 106 L21 AND L20
L2 121 HETEROARYLOXAZIR?
L2 122 HETEROARYLOXAZIR?
L2 123 1-4 lbib abs hitstr

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271 of R

RECORD: ALL CITATIONS AVAILABLE IN THE

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(FILE 'HOME' ENTERED AT 10:22:53 ON 27 AUG 2002)

FILE 'REGISTRY' ENTERED AT 10:23:37 ON 27 AUG 2002

L1 STRUCTURE UPLOADED
L2 5 S L1 FUL
L3 STRUCTURE UPLOADED
L4 1 S L1 FUL

FILE 'REGISTRY' ENTERED AT 10:28:01 ON 27 AUG 2002

SET TRMSET E#
DEL SET Y
SET L4 1 FN
L5 1 S E1/FN
SET TRMSET LOGIN

FILE 'CARLUS' ENTERED AT 10:28:06 ON 27 AUG 2002

L6 3 S L1
L7 1 S L1 FUL
L8 2815611 S PROCHUS?
L9 1 S L1 AND L7
L10 348230 S OXIDUS?
L11 0 S L9 AND L10
L12 1 S L9 AND L5
L13 1 S L9 AND L4

FILE 'REGISTRY' ENTERED AT 10:32:51 ON 27 AUG 2002

L14 STRUCTURE UPLOADED
L15 5 S L14 FUL

FILE 'CARLUS' ENTERED AT 10:33:37 ON 27 AUG 2002

L16 150 S L13-1
L17 1 S L1 FUL
L18 1 S L17 AND L16 FUL
L19 1013 S OXACIF-1?
L20 110 S L19 AND L16
L21 3906835 S PREPAR?
L22 106 S L11 AND L20
L23 2 S HFTEROAFYLOXACIR?

=> s oxid?

SYSTEM LIMITS EXCEEDED - SEARCH ENDED

The search profile you entered was too complex or gave too many answers. Simplify or subdivide the query and try again. If you have exceeded the answer limit, enter DELETE HISTORY at an arrow prompt (=) to remove all previous answers sets and begin at L1. Use the SAVE command to store any important profiles or answer sets before using DELETE HISTORY.

=> s oxida?

611511 OXIDA?
618111 OXIDN
7285 OXIDUS
619801 OXIDN

(OXIDN OR OXIDNS)
 SYSTEM LIMITS EXCEEDED - SEARCH ENDED
 The search profile you entered was too complex or gave too many answers. Simplify or subdivide the query and try again. If you have exceeded the answer limit, enter DELETE HISTORY at an arrow prompt (=>) to remove all previous answers sets and begin at L1. Use the SAVE command to store any important profiles or answer sets before using DELETE HISTORY.

```

=> s oxidation?
      497190 OXIDATN
      618112 OXIDN
      7985 OXIDNS
      619802 OXIDN
      (OXIDN OR OXIDNS)
L14      454711 OXIDATN
      (OXIDATN OR OXIDN)
=> OF LIMIT FOR TOTAL ANSWERS REACHED

```

```

=> s oxidation?
      365075 OXIDATION
      618112 OXIDN
      7985 OXIDNS
      619802 OXIDN
      (OXIDN OR OXIDNS)

```

SYSTEM LIMITS EXCEEDED - SEARCH ENDED
 The search profile you entered was too complex or gave too many answers. Simplify or subdivide the query and try again. If you have exceeded the answer limit, enter DELETE HISTORY at an arrow prompt (=>) to remove all previous answers sets and begin at L1. Use the SAVE command to store any important profiles or answer sets before using DELETE HISTORY.

> s his

(FILE 'HOME' ENTERED AT 10:22:53 ON 27 AUG 2002)

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FILE 'REGISTRY' ENTERED AT 10:23:37 ON 27 AUG 2002
L1      STRUCTURE UPLOADED
L2      536 S L1 FUL
L3      STRUCTURE UPLOADED
L4      1 S L2 FUL

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FILE 'REGISTRY' ENTERED AT 10:28:01 ON 27 AUG 2002
      SET TERMSET E#
      DEL SEL Y
      SEL L4 1 FN
L5      1 S E1 RN
      SET TERMSET LOGIN

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FILE 'CAPLUS' ENTERED AT 10:28:06 ON 27 AUG 2002
L6      3 S L5
L7      123 S L6 FUL
L8      2815651 S PROCESS?
L9      12 S L8 AND L7

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L10 346240 S OXIDIS?
L11 0 S L9 AND L10
L12 1 S L4 NOT L5
L13 1 S L4 NOT L4

FILE 'REGISTRY' ENTERED AT 10:32:51 ON 27 AUG 2002
L14 STRUCTURE UPLOADED
L15 370 S L14 FUL

FILE 'CAPLUS' ENTERED AT 10:33:37 ON 27 AUG 2002
L16 150 S L15/P
L17 120 S L FUL
L18 1 S L17 AND L16 FUL
L19 1013 S OXAZIRI?
L20 110 S L19 AND L16
L21 3906835 S PREPAR?
L22 100 S L21 AND L20
L23 2 S HETERCAFYLOXAZIR?
L24 854717 S OXIDAT?

=> s 124 and 116
L25 90 L24 AND L16

=> s 125 not 123
L26 89 L25 NOT L23

=> d 126 1-89 ibib abs hitstr

Figure 1. The effect of the concentration of the H_2O_2 solution on the amount of the released H_2O from the H_2O_2 -loaded hydrogel. The amount of the released H_2O was measured at 37 °C for 24 h. The concentration of the H_2O_2 solution was 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, and 1.0 M. The amount of the released H_2O was measured at 37 °C for 24 h. The concentration of the H_2O_2 solution was 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, and 1.0 M.

Address: 10000 Lakeside Boulevard, Suite 100, Dallas, TX 75243

Als ... steier (Helmstedt).

384816-99-3P 384817-02-1P

1. NUMBER OF REFERENCE NUMBERS CONTAINED

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11

RD 14-585-45-4 CAPLUS
 CN 1-(4-chlorophenyl)-4-[4-(4-methoxyphenyl)-2-oxaziridinyl]-1,3,5-triazole-2-thione
 CA INDEX NAME

Relative stereochemistry:

12

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RD 14-585-45-4 CAPLUS
 CN 1-(4-chlorophenyl)-4-[4-(4-methoxyphenyl)-2-oxaziridinyl]-1,3,5-triazole-2-thione
 CA INDEX NAME

Relative stereochemistry:

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RESEARCHER: THERE ARE NO LITERATURE REFERENCES AVAILABLE
 FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE

17

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RD 14-585-45-4 CAPLUS
 CN 1-(4-chlorophenyl)-4-[4-(4-dimethylaminophenyl)-2-oxaziridinyl]-1,3,5-triazole-2-thione
 CA INDEX NAME

Relative stereochemistry:

20

21

RD 14-585-45-4 CAPLUS
 CN 1-(4-chlorophenyl)-4-[4-(4-hydroxyphenyl)-2-oxaziridinyl]-1,3,5-triazole-2-thione
 CA INDEX NAME

Relative stereochemistry:

ACCESSION NUMBER 1988-15/146 CAPLUS
 DOCUMENT NUMBER 128/252190
 TITLE In vitro microsomal metabolism of nuclear substituted secondary amines and imines
 AUTHOR 2: Kukuloglu, I.; Ugen, M.; Gokbulut, T. W.
 CONTRIBUTOR SOURCE: Dep. Pharmaceutical Chemistry, Fac. Pharmacy, Marmara University, Turkey
 SOURCE: European Journal of Drug Metabolism and Pharmacokinetics, 1990, 11, 1, 57, 35
 CODEN: EUPHED 155M 35 57
 PUBLISHER: Medline of Hygiene
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB The metabolism of N-(4-chlorophenyl)-4-methoxybenzylamine (CPA), N-(4-chlorophenyl)-4-methoxybenzylamine (CBCHA), and N-(4-chlorophenyl)-4-methoxybenzylamine (CBCHA) were studied in vitro using rat liver microsomal preparations. The secondary amines produced the corresponding N-oxido products, N-oxidoamines and N-oxidoimines, and dealkylation products, 4-chlorobenzaldehyde and primary amines. Secondary amines failed to produce the corresponding amides, while the parent imine was detected as a metabolite. CBCHA, the intermediate imine of CBCHA metabolite, was also incubated under similar conditions. However, no oxaziridine was detected.
 IT 205248-63-1P
 RI: SPN (Synthetic preparation); FRAP (Preparation)
 (in vitro microsomal metab. of nuclear chloro substituted secondary amines and imines)
 RI: 205248-63-1 CAPLUS
 CN Oxaziridine, 3-(4-chlorophenyl)-2-(4-chlorophenyl)-methyl- (9CI)
 CA INDEX NAME

11X ANSWER IS OF YN CAPLOS COPYRIGHT 2002 ACS
 11Y INDEX NUMBER
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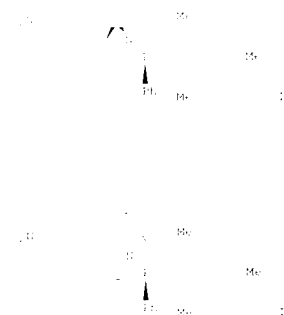
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1. NUMBER 15 OF 24 CAPLUS COPYRIGHTED BY ACS
 AUTHOR NUMBER 159257-74-4 CAPLUS
 DOCUMENT NUMBER 159257-74-4
 TITLE Studies on the oxidation of isomethine
 compounds with 2-chloroperbenzoic acid
 AUTHOR S. J. Chmielewski, F. P. Kubicek,
 W. J. Chmielewski, F. P. Kubicek
 COPIES 159257-74-4 CAPLUS
 SOURCE POL. J. Chem. (1993), 67(4), 711-22
 COUNTRY POLAND
 LANGUAGE English
 ABSTRACT Oxidation of isomethine compounds with 2-chloroperbenzoic acid, an electrophilic oxidant, was investigated. From 2-chloroperbenzoic acid, bisoxazolones, and pyridine-derived oxadiazoles, various products such as oxadiazoles, bisoxazolones, and pyridine-derived oxadiazoles were obtained in high yields.

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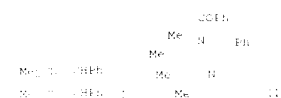
1. NUMBER 15 OF 24 CAPLUS
 AUTHOR NUMBER 159257-74-4 CAPLUS
 DOCUMENT NUMBER 159257-74-4
 TITLE Studies on the oxidation of isomethine
 compounds with 2-chloroperbenzoic acid
 AUTHOR S. J. Chmielewski, F. P. Kubicek,
 W. J. Chmielewski, F. P. Kubicek
 COPIES 159257-74-4 CAPLUS
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IN: NUMBER 4 (1994) TITLE: TETRAFLUOROETHYLENE
 ACCESSION NUMBER: 19940401000000000000
 DOCUMENT NUMBER: 19940401000000000000
 COUNTRY: interesting products derived from the
 REACTIONS OF 1,1-diamino-2,3-dimethylbutane
 AUTHOR S: Sagoni, Janet L.; Walters, Thomas R.; Tappin,
 Walter
 W. J.; Buzby, John W.
 CORE DATE SOURCE: Dep. Chem., Villanova Univ., Villanova, PA,
 USA
 SOURCE: J. Org. Chem. (1993), 58, 24, 6112-15
 COUNTRY: COHEN: ISSN: 0022-0248
 DOCUMENT TYPE: Journal
 LANGUAGE: English

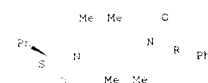


101 ANSWER 45 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

PL 1-211-81.6 CAPLUS
N Oxalindine, 1,2'-1,6-hexanediyldis, 4-nitrophenyl, 601
CA 1100
NAME

ANSWER 10 OF 89 CARLOS COPYRIGHT 2012 AUG 2012

Practical Stereochemistry.

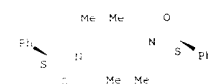


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RN: 112515-88 1 CAPLUS
CN: Oxazolidine,
1,2'-bis[1,2,2,2-tetramethyl-1,2-ethanediylo]bis[5-phenyl-
R1:R1: (9CI) CA INDEX NAME.

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Relative stereochemistry.



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1. ANSWER TO IF - CAPLOS, COPYRIGHT - ACP, 1975

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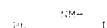
144. 1975

145. 1975

NAME	WILLIAM CARPENTIER
DATE OF BIRTH	1906-05-10
PLACE OF BIRTH	LYONS, FRANCE
EDUCATION	AN EFFICIENT AND GENERAL KNOWLEDGE OF SCIENCE
RELIGION	CATHOLICISM
PRESENT SOURCE	ANTHONY, STEPHEN T. MAESTRI, 1111 E. 12TH ST., CHICAGO, ILL. (NEW BRUNSWICK, N. J. REGISTERED)
REMARKS	VERY TALL
REMARKS	LAST KNOWN TO BE IN CHICAGO, ILL. IN 1934
REMARKS	CHICAGO, ILL. (NEW BRUNSWICK, N. J. REGISTERED)
REMARKS	CHICAGO, ILL.
REMARKS	CHICAGO, ILL. (NEW BRUNSWICK, N. J. REGISTERED)



1. REVIEWER ID OF	CARLOS CORREYRUELO, JR
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100. ENTRY	1993-1988-1



Ap 4. rapid and efficient synthesis of N-acylimine from imines by
oxidation with buffered Oxone in acetonitrile. Oxidation of imines is
described; diaryl imines (ArICH=NAr') give nitriles, 4-oxo
with Oxone. The intermediacy of dimethylhydroxylamine as oxidizing
species
was discussed. Oxidn. of N-benzylidene methanamine with Oxone
gives 2-methyl-2-phenyl-oxaziridine, 1:1:46 yield.
11 3400-12-2P 7731-32-0P 7731-34-2P
34052-01-3P 130995-64-1P 144852-04-0P
RLE: FBN Synthetic preparation; FBN Preparation.
Abstracted, by oxidn. of imine with Oxone.
RLE 3400-12-2 CARLUS
Oxaziridine, 2-methyl-2-phenyl- 601, 701, 801, 901 CA INDEX
Oxide

PK	NAME	CLASS	ROUTE	DOSE	INDIC	INDIC NAME
11	Quindine, 300 mg	methylethy. phenyl.	PO	100 mg	100 mg	100 mg

1. Bu

2.

3. 144395-94-8

4. 1,1-dimethylethyl-3-(4-methoxyphenyl)-1H-imidazole-2-carboxylate CA INDEX NAME

5. 144395-94-8

6. 144395-94-8

7.

8. 144395-94-8

9. 1,1-dimethylethyl-3-(4-methoxyphenyl)-1H-imidazole-2-carboxylate CA

10. 144395-94-8

11. Bu

12. 144395-94-8

13. 144395-94-8

14. 144395-94-8

15. 1,1-dimethylethyl-3-(4-methoxyphenyl)-1H-imidazole-2-carboxylate CA INDEX NAME

16. Bu

17. 144395-94-8

18. 144395-94-8

19. 144395-94-8

20. 1,1-dimethylethyl-3-(4-methoxyphenyl)-1H-imidazole-2-carboxylate CA INDEX NAME

2. 144395-94-8 CAPLUS

3. 144395-94-8

4. Synthesis, fragmentations and rearrangements of 1,1-dimethylethyl-3-(4-methoxyphenyl)-1H-imidazole-2-carboxylate

5. 144395-94-8

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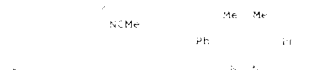
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93. <http://www.fishbase.org> (Accessed 15 April 2008).

1. AUTHOR: [REDACTED] 2. TITLE: [REDACTED] 3. JOURNAL: [REDACTED]

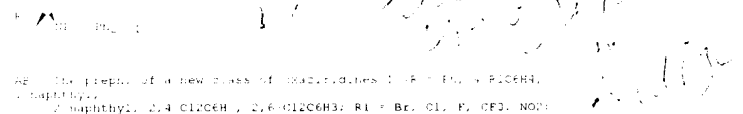
1. AUTHOR: [REDACTED] 2. TITLE: [REDACTED] 3. JOURNAL: [REDACTED]



Abstract: [REDACTED] The reaction of [REDACTED] with [REDACTED] and [REDACTED] to form [REDACTED] rather than [REDACTED]. The imine products were stable, but those from alines apparently were unstable and [REDACTED] to ketones or aldehydes plus diene compounds. Thus, [REDACTED] gave oxaziridines [REDACTED] while pyrazole [REDACTED] gave [REDACTED] and [REDACTED].

1. AUTHOR: [REDACTED] 2. TITLE: [REDACTED] 3. JOURNAL: [REDACTED]

1. AUTHOR: [REDACTED] 2. TITLE: [REDACTED] 3. JOURNAL: [REDACTED]



Abstract: [REDACTED] The preparation of a new class of oxaziridines [REDACTED] is described. [REDACTED] of N-phosphinoyl imines, [REDACTED] under basic or neutral conditions, and characterized by NMR spectroscopy. [REDACTED] and [REDACTED] coupling constants are reported. An x-ray structure analysis of [REDACTED] establishes that the [REDACTED] group is [REDACTED] to the [REDACTED] ring. The P-N bond length [REDACTED] is [REDACTED] high for an aminophosphorus V compound, and the N atom is pyramidal. This geometry is interpreted in terms of an unusually low degree of [REDACTED] bonding between N and P due to the high s character of the N lone pair.

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LEX ANSWER 41 OF 89 CAPLUS COPYRIGHT 2002 ACS
 AC EDITION NUMBER 109138210
 DOCUMENT NUMBER 109138210
 TITLE: Oxidation of imines to nitriles by the permanganate ion
 AUTHOR(S): Thirietelash, Lothar; Thirietelash, Karl; Admer, Chem. Inst., Aarhus Univ., Aarhus, DK 8000.
 CORP. SOURCE: J. Org. Chem. 1989, 54, 12, 12-14
 CODEN: JOCEAH ISSN: 0362-0763
 CASREACT: 11038453
 AB: A new permanganate ion **oxidn.** is presented. A series of imines have been oxidized to nitriles in reasonable yields with the permanganate ion under phase transfer conditions. The influence of the amount of permanganate ion, of phase transfer catalysts, and a variety of solvents on the reaction have been investigated. The presence of a quaternary ammonium salt for the formation of the imine. The best phase transfer catalysts are quaternary ammonium salts with long alkyl chains. The mechanism for the permanganate **oxidn.** of imines to nitriles is discussed from a frontier orbital point of view. The reaction proceeds via an interaction of the oxygen atoms in the permanganate ion with the carbon and nitrogen in the imine. The configuration and isomeric structures of the permanganate imine complex are discussed.
 IT 43052-01-3P
 PREP. (Synthetic preparation): PREP. Preparation of the imine.
 RE: 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 INDEX: 11038453

C: Bu
 N
 O
 OMe

RE: 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 CN: 2-Oxaziridineacetic acid, 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 METHYL: ester, [2R-(2.alpha.(R*),3.alpha.)]- (9CI) (CA INDEX NAME)

Me
 CH: 3-Me
 N
 O
 OMe

RE: 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 CN: 2-Oxaziridineacetic acid, 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 METHYL: ester, [2S-(2.alpha.(R*),3.alpha.)]- (9CI) (CA INDEX NAME)

Me
 CH: 3-Me
 N
 O
 OMe

RE: 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 CN: 2-Oxaziridineacetic acid, 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 METHYL: ester, [2R-(2.alpha.(R*),3.alpha.)]- (9CI) (CA INDEX NAME)

LEX ANSWER 42 OF 89 CAPLUS COPYRIGHT 2002 ACS
 AC EDITION NUMBER 109138210
 DOCUMENT NUMBER 109138210
 TITLE: Optically active N-hydroxy-2-methoxy-2-methyl-3-oxaziridineacetic acid
 AUTHOR(S): Thirietelash, Lothar; Thirietelash, Karl; Admer, Chem. Inst., Aarhus Univ., Aarhus, DK 8000.
 CORP. SOURCE: J. Org. Chem. 1989, 54, 12, 12-14
 CODEN: JOCEAH ISSN: 0362-0763
 CASREACT: 11038453
 AB: A new permanganate ion **oxidn.** is presented. A series of imines have been oxidized to nitriles in reasonable yields with the permanganate ion under phase transfer conditions. The influence of the amount of permanganate ion, of phase transfer catalysts, and a variety of solvents on the reaction have been investigated. The presence of a quaternary ammonium salt for the formation of the imine. The best phase transfer catalysts are quaternary ammonium salts with long alkyl chains. The mechanism for the permanganate **oxidn.** of imines to nitriles is discussed from a frontier orbital point of view. The reaction proceeds via an interaction of the oxygen atoms in the permanganate ion with the carbon and nitrogen in the imine. The configuration and isomeric structures of the permanganate imine complex are discussed.
 IT 43052-01-3P
 PREP. (Synthetic preparation): PREP. Preparation of the imine.
 RE: 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 INDEX: 11038453

CH: HOCH₂CO₂Me
 MeO
 NCH₂CO₂Me
 Me
 II
 MeO
 NCH₂CO₂Me
 II

AB: Title compds. 1-HOCH₂CO₂Me (I) & Me, CHMe₂, CH₂CHMe₂, CH₂Ph-
 prep. by treating H₂NCH₂CO₂Me.HCl (R = same) with 4-MeOCH₂CH₂CO₂Me
 the resulting Schiff bases II with MCPBA, and cleaving the
 resulting oxaziridines III with H₂NOH.HCl. After the latter cleavage, the
 resulting HCl salts were neutralized with satd. NaHCO₃ soln. to give I. III
 were a mixt. of diastereoisomers
 IT 115026-32-9P 115075-33-7P 115075-34-8P
 115075-35-9P 115075-36-0P 115075-37-1P
 115113-91-2P 115114-39-1P
 RE: 3PN (Synthetic preparation): PREP. Preparation of the imine.
 CN: 2-Oxaziridineacetic acid, 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 METHYL: ester, [2S-(2.alpha.(R*),3.alpha.)]- (9CI) (CA INDEX NAME)

LEX ANSWER 43 OF 89 CAPLUS COPYRIGHT 2002 ACS
 AC EDITION NUMBER 109138210
 DOCUMENT NUMBER 109138210
 TITLE: Optically active N-hydroxy-2-methoxy-2-methyl-3-oxaziridineacetic acid
 AUTHOR(S): Thirietelash, Lothar; Thirietelash, Karl; Admer, Chem. Inst., Aarhus Univ., Aarhus, DK 8000.
 CORP. SOURCE: J. Org. Chem. 1989, 54, 12, 12-14
 CODEN: JOCEAH ISSN: 0362-0763
 CASREACT: 11038453
 AB: A new permanganate ion **oxidn.** is presented. A series of imines have been oxidized to nitriles in reasonable yields with the permanganate ion under phase transfer conditions. The influence of the amount of permanganate ion, of phase transfer catalysts, and a variety of solvents on the reaction have been investigated. The presence of a quaternary ammonium salt for the formation of the imine. The best phase transfer catalysts are quaternary ammonium salts with long alkyl chains. The mechanism for the permanganate **oxidn.** of imines to nitriles is discussed from a frontier orbital point of view. The reaction proceeds via an interaction of the oxygen atoms in the permanganate ion with the carbon and nitrogen in the imine. The configuration and isomeric structures of the permanganate imine complex are discussed.
 IT 43052-01-3P
 PREP. (Synthetic preparation): PREP. Preparation of the imine.
 RE: 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 INDEX: 11038453

Me
 CH: 3-Me
 N
 O
 OMe

Me
 CH: 3-Me
 N
 O
 OMe

RE: 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 CN: 2-Oxaziridineacetic acid, 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 METHYL: ester, [2R-(2.alpha.(R*),3.alpha.)]- (9CI) (CA INDEX NAME)

Me
 CH: 3-Me
 N
 O
 OMe

RE: 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 CN: 2-Oxaziridineacetic acid, 3-4-methoxyphenyl-1-methyl-2-methoxypropyl-1-ol-1-ol
 METHYL: ester, [2S-(2.alpha.(R*),3.alpha.)]- (9CI) (CA INDEX NAME)

IN: 11/11/85 "CAPLUS
 IN: 11/11/85phthalenedione, 2,2'-propyl-1,6-naphthylidene, 1,1'-bis-4-Cl
 IN: 11/11/85

FR



FR 11976-84-6 CAPDUS
ON Oxaliridine, 3-(3-bromo-1,4-dimethoxy-2-naphthylethyl)-N-propyl, trans
CA INDEX NAME

FR



FR 11976-84-6 CAPDUS
ON Oxaliridine, 3-(3-bromo-1,4-dimethoxy-2-naphthylethyl)-N-propyl, trans
CA INDEX NAME

FR



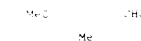
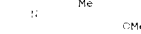
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ON Oxaliridine, 3-(3-bromo-1,4-dimethoxy-2-naphthylethyl)-N-propyl, trans
CA INDEX NAME

FR



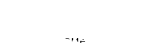
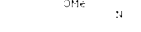
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CA INDEX NAME

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FR 11976-84-6 CAPDUS
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CA INDEX NAME

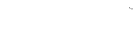
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CA INDEX NAME



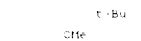
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CA INDEX NAME



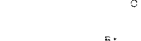
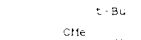
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ON Oxaliridine, 3-(3-bromo-1,4-dimethoxy-2-naphthylethyl)-N-propyl, trans
CA INDEX NAME



FR 11976-84-6 CAPDUS
ON Oxaliridine, 3-(3-bromo-1,4-dimethoxy-2-naphthylethyl)-N-propyl, trans
CA INDEX NAME



FR 11976-84-6 CAPDUS
ON Oxaliridine, 3-(3-bromo-1,4-dimethoxy-2-naphthylethyl)-N-propyl, trans
CA INDEX NAME



FR 11976-84-6 CAPDUS
ON Oxaliridine, 3-(3-bromo-1,4-dimethoxy-2-naphthylethyl)-N-propyl, trans
CA INDEX NAME

[illegible]

100

CH₃ Ph
C Ph
C S N CH Me
N O
C
NO₂
Ph 1949 v. 1 (APLUS
N 2 Oxaliridineulfonamide,
N 1,1,1-trichloro-2-nitrophenyl-N , phenylethyl-N
N 1,1,1-trichloro-2-nitrophenyl-N , phenylethyl-N
N 1,1,1-trichloro-2-nitrophenyl-N , phenylethyl-N
NAME

```

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      |     |
  O   C     C
      |     |
  O   N     CH Me

      |
      O

      NO2

Ph  2-oxaziridinesulfonamide, 4-(4-nitrophenyl)-N-(1-phenylethyl)-N-
CH  2-oxaziridinesulfonamide, 4-(4-nitrophenyl)-N-(1-phenylethyl)-N-
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NAME

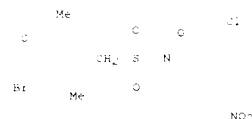
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1. *Proprietary* – software and use of AS are controlled
 2. *Open* – software is available
 3. *Non-proprietary* – methods, protocols, procedures, all trans-act
 4. *Public* –

1. TOPICS
 With high enantioselectivity using chiral
 sulfinylloxalimines
 2. AUTHOR S
 Davis, Franklin A. Chattopadhyay, Sankar
 3. DESCRIPTOR SOURCE
 Dep. Chem., Drexel Univ., Philadelphia, PA,
 4. LOCUS
 Tetrahedron Lett. 1994; 35(4): 509-12
 5. CONTROLLED INDEXING
 JOURNAL: TETRAHEDRON LETT. 1994; 35(4)
 6. DOCUMENT TYPE
 JOURNAL
 7. LANGUAGE
 ENGLISH
 8. OTHER NUMBERING
 CASREACT 171994

WITNESS the hand and seal of the said Secretary of the said Board of Directors, this 14th day of May, 1997.

 Secretary of the Board of Directors



IN 103341-4 CAPLUS
IN 103341-5 Oxariridinesulfonamide,
1-(4-(4-(4-oxo-1,2,3,4-tetrahydrophthalazin-6-yl)-phenylethyl)-N-phenylmethyl)-N-phenylmethyl-, (2S,3 α ,4 α ,5 β)- 501 CA INDEX
103341-6

1. INVENTOR: GILLESPIE, JAMES, COPYRIGHT: 1, ACS
 APPLICATION NUMBER: 196701701, CLASS:
 DOCUMENT NUMBER: 1, 171730
 TITLE: Preparation of homo- & polyvinylcarbazole
 Nucleosides, Res
 Schenckebach, Fritz Waldmann, Helmut, Inselger,
 Karl
 INVENTOR: GILLESPIE, JAMES
 PATENT AND/OR REF: Bayer A. G., Fed. Rep. Ger.
 196701701, Ger. Offen., 1, 171730
 CODEN: GWXXBN
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACQ. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 3139451	A1	19870409	DE 1985-1535451	19851004
EP 217206	A1	19870406	EP 1986-11366	19860923
EP 217208	A2	19871216		
EP 217209	B1	19900801		
P: AT, BE, CH, DE, FR, GB, IT, LI				
AT 55110	E	19860810	JP 66 133 66	19860923
FR 2 61359	A2	19870424	JP 66 133 66	19860923
PRIORITY APPLICATIONS:				
			DE 1981-153545	19851004
			EP 1981-12324	19850923

• 35 •

 ΔM_{gas}

12c ANSWER 51 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

12c ANSWER 52 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

AB: PEROXIDE, R = 2-naphthyl, 4-bromophenyl, 4-fluorophenyl, reacted with PhI(OAc)₂ in CH₂Cl₂ to give PEROXIDE, which on γ -chloroacetic acid in the presence of radical gave 3,5-diphenylphosphinoyl oxaziridines (R = 2-naphthyl). The structure of 3,5-diphenylphosphinoyl, 4-bromophenyl, 4-fluorophenyl, confirmed by spectroscopic analysis, function as oxidants.
 INDEX: 98837-40-2P 98837-41-3P 98837-42-4P 98837-43-5P
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

12c ANSWER 53 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

AB: Oxidation reactions of 1,2-dimethyl-3-phenyl-oxaziridine (1) and 1,2-dimethyl-3-phenyl-oxaziridine (2) with γ -chloroacetic acid in the presence of radical gave 3,5-diphenylphosphinoyl oxaziridines (R = 2-naphthyl). The structure of 3,5-diphenylphosphinoyl, 4-bromophenyl, 4-fluorophenyl, confirmed by spectroscopic analysis, function as oxidants.
 INDEX: 98837-40-2P 98837-41-3P 98837-42-4P 98837-43-5P
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

12c ANSWER 54 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

12c ANSWER 55 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

12c ANSWER 56 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

12c ANSWER 57 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

12c ANSWER 58 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

12c ANSWER 59 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

12c ANSWER 60 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

12c ANSWER 61 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

12c ANSWER 62 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

12c ANSWER 63 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

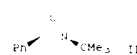
12c ANSWER 64 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

12c ANSWER 65 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACQUISITION NUMBER: 1998020894
 DOCUMENT NUMBER: 1-3112084
 TITLE: Normal, abnormal, and pseudoabnormal reaction pathways
 AUTHOR: Boga, Derek R.; Coulter, Peter R.; Sharma, Vishwas, W.; Brian, Wilsch, Valerie E.
 ORGANIZATION: Dept. Chem., Queen's Univ., Belfast, Belfast, Northern Ireland, U.K.
 JOURNAL: Tetrahedron Lett., 1998, 39(13), 1671-1674
 CODEN: TETLEA; ISSN: 0040-4039
 LANGUAGE: English
 OTHER NUMBER: Abstract 1-3112084

DOI: 10.1021/CR00000A001 (continued)

AB Photorearrangement of acetal aldo and keto nitrones in 1,1,1-trichloroethane or 1,1,2-trichloroethane gave optically active oxaziridines with optical yields up to 40%. E.g., irradiation of PhCH=N(O)CMe₂ in I at 300 nm and 140 deg. for 31 h gave 100% oxaziridine II with 11.5% optical yield. Similarly, chiral nitrones photorearranged in achiral solvents with an optimum diastereoselectivity excess of 20%. Temp., solvent, and substituent effects on the asym. synthesis of oxaziridines were examd. Oxaziridines with a p-nitrophenyl substituent underwent photolacemization and photoepimerization.

DOI: 10.1021/CR00000A001 (continued)
 AB Photorearrangement of acetal aldo and keto nitrones in 1,1,1-trichloroethane or 1,1,2-trichloroethane gave optically active oxaziridines with optical yields up to 40%. E.g., irradiation of PhCH=N(O)CMe₂ in I at 300 nm and 140 deg. for 31 h gave 100% oxaziridine II with 11.5% optical yield. Similarly, chiral nitrones photorearranged in achiral solvents with an optimum diastereoselectivity excess of 20%. Temp., solvent, and substituent effects on the asym. synthesis of oxaziridines were examd. Oxaziridines with a p-nitrophenyl substituent underwent photolacemization and photoepimerization.



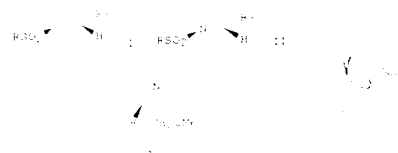
AB Photorearrangement of acetal aldo and keto nitrones in 1,1,1-trichloroethane or 1,1,2-trichloroethane gave optically active oxaziridines with optical yields up to 40%. E.g., irradiation of PhCH=N(O)CMe₂ in I at 300 nm and 140 deg. for 31 h gave 100% oxaziridine II with 11.5% optical yield. Similarly, chiral nitrones photorearranged in achiral solvents with an optimum diastereoselectivity excess of 20%. Temp., solvent, and substituent effects on the asym. synthesis of oxaziridines were examd. Oxaziridines with a p-nitrophenyl substituent underwent photolacemization and photoepimerization.

DOI: 10.1021/CR00000A001 (continued)

AB Photorearrangement of acetal aldo and keto nitrones in 1,1,1-trichloroethane or 1,1,2-trichloroethane gave optically active oxaziridines with optical yields up to 40%. E.g., irradiation of PhCH=N(O)CMe₂ in I at 300 nm and 140 deg. for 31 h gave 100% oxaziridine II with 11.5% optical yield. Similarly, chiral nitrones photorearranged in achiral solvents with an optimum diastereoselectivity excess of 20%. Temp., solvent, and substituent effects on the asym. synthesis of oxaziridines were examd. Oxaziridines with a p-nitrophenyl substituent underwent photolacemization and photoepimerization.

DOI: 10.1021/CR00000A001 (continued)

AB Photorearrangement of acetal aldo and keto nitrones in 1,1,1-trichloroethane or 1,1,2-trichloroethane gave optically active oxaziridines with optical yields up to 40%. E.g., irradiation of PhCH=N(O)CMe₂ in I at 300 nm and 140 deg. for 31 h gave 100% oxaziridine II with 11.5% optical yield. Similarly, chiral nitrones photorearranged in achiral solvents with an optimum diastereoselectivity excess of 20%. Temp., solvent, and substituent effects on the asym. synthesis of oxaziridines were examd. Oxaziridines with a p-nitrophenyl substituent underwent photolacemization and photoepimerization.



AP 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840.

ANSWER 57 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

$$\begin{array}{l} \text{C} \quad \text{CH}_2 \quad \text{Ph} \\ \text{H} \quad \text{H} \quad \text{H} \quad \text{Me} \\ \text{H} \quad \text{H} \quad \text{H} \end{array}$$

NAME
 REG
 PL 1955; R# 124105
 N# 133321; 133322; 133323
 1. 2,4-dichloro-6-nitrophenyl 2,4,6-triphenylethyl-N
 phenylmethanol 125 (alpha, R* (beta, 11) R01 CA INDEX
 NAME

$$\begin{array}{ccccccc}
 & & \text{CH}_2 & & \text{PE} & & \\
 & & | & & | & & \\
 & & \text{C} & & \text{PE} & & \\
 & & | & & | & & \\
 \text{O} & - & \text{S} & - & \text{N} & - & \text{CH} & - & \text{Me} \\
 & & & & & & | & & \\
 & & & & & & \text{Cl} & & \\
 & & & & & & \text{N} & & \\
 & & & & & & | & & \\
 & & & & & & \text{H} & &
 \end{array}$$

```

      NC
PR      8955e 81-  CAPIUS
CR      Pyrrolidine, 2-(methoxymethyl)-1-[[3-(4 nitrophenyl)-2
      oxaziridinyl]sulfonyl]-, [2S-[2.alpha.(R*),3.beta.]]- (CA
INDEX
      NAME)

```

$$\begin{array}{c}
 \text{MeO}-\text{CH}_2-\text{N} \\
 | \quad | \quad | \\
 \text{O} \quad \text{S} \quad \text{O} \\
 | \\
 \text{H} \\
 | \\
 \text{O} \\
 | \\
 \text{ON}
 \end{array}$$
[illegible][illegible][illegible]

```

NAME          1,3-BIS(4-NITROPHENYL)-2-METHYLMETHANESULFONATE
SMILES        CN(CS(=O)(=O)c1ccc(cc1)[N+](=O)[O-])c2ccc(cc2)[N+](=O)[O-]
MW            336.27

```

12. ANSWER 50 OF 89 CAPLUS COPYRIGHT 1990 ACS (Continued)

$$\begin{array}{c} \text{MeO} \quad \text{CH}_3 \quad \text{H} \\ | \quad | \quad | \\ \text{C} \quad \text{S} \quad \text{C} \\ | \quad | \quad | \\ \text{H} \quad \text{H} \quad \text{H} \\ | \quad | \quad | \\ \text{O} \quad \text{H} \quad \text{O} \end{array}$$

IT 89556-82-1P 89616-65-9P
 RL: SPN (Synthetic Preparation); PREP (Preparation)
 (Prep. of)
 RN 89556-82-1: CAPLUS
 CN Pyridoline,
 1-[[1-(2-chloro-5-nitrophenyl)-2-oxaziridinyl]sulfonyl]-2-
 methoxyethyl-; [2S-(2.alpha.(R*),3.beta.)]- (9CI); (CA INDEX
 NAME)

$$\begin{array}{ccccccc}
 \text{MeO} & \text{CH}_2 & & \text{N} & & & \\
 & | & & & & & \\
 & \text{O} & & \text{S} & & \text{O} & \\
 & & & \text{N} & & & \\
 & & & \text{C} & & & \\
 & & & & & & \text{NO}_2
 \end{array}$$

```

RN      #9616-65-9  CAPLUS
CN      Pyrethroidine,
C       1,1,1-trichloro-5-methyl-2-(2-chloro-5-nitrophenyl)-2-oxadiaziridinyl)sulfonyl)-2-
        methoxymethyl)-, [2R-(2.alpha.,3.alpha.,3.beta.)]- (9CI) (CA INDEX
NAME

```

Ne: 01-01-01

01-01-01

01-01-01

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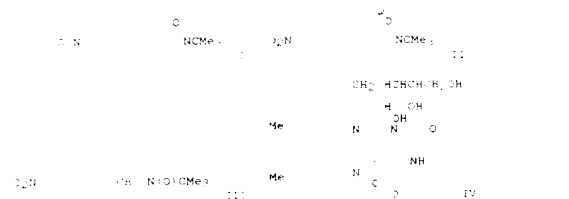
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01-01-01

1.1 ANSWER 1-6P 84 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 19449610 CAPLUS
 DOCUMENT NUMBER: 19449610
 TITLE: Oxygen transfer from oxaziridines: a chemical
 model for iron-dependent monooxygenases
 AUTHOR: Warner, William R.; Spero, Denise M.;
 Kastner, William R.
 CORPORATE SOURCE: Massachusetts Inst. Technol.,
 Cambridge, MA 02139, USA
 SOURCE: J. Am. Chem. Soc., 1984, 106(1), 1476-85
 CODEN: JACSAT; ISSN: 0021-9618
 DOCUMENT TYPE: Journal Article
 LANGUAGE: English



AB The ability of several oxaziridines to transfer an O atom to phenolates was examined. p-Nitrophenyl-2-tert-butylloxaziridine I was found to oxidize K 2,6-di-tert-butylphenolates to the corresponding p-benzoquinones. Product studies and an ESR signal suggested an electron transfer mechanism for these oxidations. 18O-labeled oxaziridine II was prepared. Oxidations of phenolates with II rigorously established the oxaziridine ring O as the atom that was transferred to substrate. Kinetic studies with oxaziridine I and the phenoxide nitron, III, ruled out the nitron as an obligate intermediate in the O-transfer reaction. In the oxidation of substrate, a single electron transfer from phenolate to oxaziridine is thought to generate a phenoxy/nitron radical pair, which upon coupling and fragmentation achieves the O transfer. These O-transfer reactions serve as models for the proposed flavin-based oxaziridine, IV, in enzyme-mediated monooxygenations.

1.1 ANSWER 1-6P 84 CAPLUS COPYRIGHT 2002 ACS (continued)
 1.1 84279-01-6P 88343-97-9P
 RN 84279-01-6P 88343-97-9P
 CH Oxaziridine, 2-(1,1-dimethylethyl)-3-(2,4-dinitrophenyl)- (9CI)
 CA INDEX NAME

01-01-01

01-01-01

01-01-01

01-01-01

01-01-01

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01-01-01

01-01-01

01-01-01

01-01-01

01-01-01

01-01-01

1.1 ANSWER 1-6P 84 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 19449610 CAPLUS
 DOCUMENT NUMBER: 19449610
 TITLE: Influence of the N-sulfonyl and N-alkyl groups on
 the stereochemical features of the
 peroxo acid imine
 reaction
 AUTHOR: Sisti, Maria; Fanni, Arrigo; Moretti,
 Irene
 CORPORATE SOURCE: Inst. Chim. Org., Univ. Modena, Modena, 41100,
 Italy
 SOURCE: J. Am. Chem. Soc., Perkin Trans. 2, 1983, 7,
 1515-20
 CODEN: PERKIN; ISSN: 0360-6376
 DOCUMENT TYPE: Journal Article
 LANGUAGE: English
 OTHER SOURCE: CAPLUS 1983:33826

AB A sym. oxaziridine of prochloral sulfonamide and N-alkyl imines to
 oxaziridines by chiral peroxo acids was studied. The differences
 in the diastereoselectivity and enantioselectivity of the 2 reactions are
 discussed in terms of the effects of the sulfonyl and alkyl groups
 on the stereocenter.

1.1 63087-57-0P 67463-01-6P 67463-02-9P
 80997-74-6P 85653-70-0P 85653-71-0P
 88376-31-2P 88376-32-3P
 RN 84279-01-6P 88343-97-9P
 CH Oxaziridine, 2-(1,1-dimethylethyl)-3-phenyl-, (2S-trans)- (9CI)
 CA INDEX NAME

01-01-01

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01-01-01

LD1 ANSWER 41 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACCESSION NUMBER: 1992:543570 CAPLUS
 DOCUMENT NUMBER: 97143670
 TITLE: Chemistry of Oxaziridines. 3. Asymmetric oxidation of thiosulfonates using chiral 2-sulfonyloxaziridines
 AUTHOR: Sam. B. Strimer, Orum D. Watson, William H. Bailey, Jean
 CORPORATE SOURCE: Dept. Chem., Draxel Univ., Philadelphia, PA,
 J. Am. Chem. Soc. (1993), 115(20), 5412-18
 SOURCE: JACSAT ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE S: CASREACT 97:14, 970
 CI



AB: Na was oxidized with 50% enriched $^{18}\text{O}_2$ at 300-325 degree, in an Al
 vessel.
 This was treated with 2,2-dichloro-1,1-difluoroethane to
 give the title acid (I) with 39% total active ^{18}O .
 4-(N-methyl-N-methyl-oxycyclohexane, and cyclohexanone were oxidized
 with 10% $^{18}\text{O}_2$ to give oxaziridone (II), 4-epoxide (III), and 92% lactone (IV), resp.
 CI 84279-01-6P
 Key Words: Synthetic preparation; PREP (Preparation);
 prepn. and asym. oxidn. of sulfides by;
 FN 84279-01-6P CAPLUS
 CN Oxaziridine, 2-[(7,7'-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-1-(4-nitrophenyl)- (9CI)
 CA INDEX NAME:
 NAME

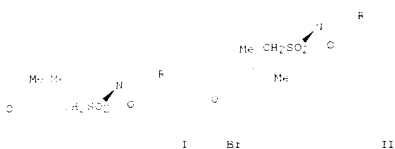
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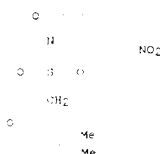
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LD1 ANSWER 42 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACCESSION NUMBER: 1992:543570 CAPLUS
 DOCUMENT NUMBER: 97143670
 TITLE: Chemistry of Oxaziridines. 3. Asymmetric oxidation of thiosulfonates using chiral 2-sulfonyloxaziridines
 AUTHOR: Sam. B. Strimer, Orum D. Watson, William H. Bailey, Jean
 CORPORATE SOURCE: Dept. Chem., Draxel Univ., Philadelphia, PA,
 J. Am. Chem. Soc. (1993), 115(20), 5412-18
 SOURCE: JACSAT ISSN: 0002-7863
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE S: CASREACT 97:14, 970
 CI

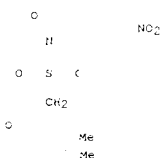


AB: R,R- and (3S,4S)- and -II (R = substituted phenyl) give the best
 enantioselectivity of any chiral oxidizing reagent for the asym.
 oxidn. of sulfides and disulfides to sulfoxides and
 thiosulfonates, resp., 5-9 times better than chiral peracids. For
 asym. oxidns. using I and II the configuration of the oxaziridine
 3-membered ring controlled the configuration of the product, which
 is related using a chiral recognition mechanism. The increased
 asym. prodn. exhibited by chiral 2-sulfonyloxaziridines was attributed to the
 fact that the active-site O was incorporated into a rigid chiral
 environment. The
 small size difference (30% effect) in both the oxaziridine and
 substrate
 prodn. important roles in defn. the abs. configuration of the
 product and
 the magnitude of the asym. bias. As the 6S1 increases, the
 enantioselectivity increases.
 IT 72530-30-8P 72530-31-9P 72501-74-9P
 72501-75-0P 81310-08-9P 81369-89-3P
 81422-07-3P 81446-77-7P 82679-84-3P
 82730-20-9P

LD1 ANSWER 62 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and asym. oxidn. of sulfides by)
 RN 72531-30-8 CAPLUS
 CN Oxaziridine, 2-[(7,7'-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-1-(4-nitrophenyl)-,
 (2R-[2.alpha.,(1S*,4R*),3.beta.]]-
 (9CI) (CA INDEX NAME)

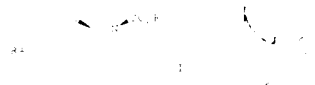


RN 72531-31-9 CAPLUS
 CN Oxaziridine, 2-[(7,7'-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-1-(4-nitrophenyl)-,
 (2R-[2.alpha.,(1R*,4S*),3.beta.]]-
 (9CI) (CA INDEX NAME)



RN 72581-74-9 CAPLUS
 CN Oxaziridine, 2-[(7,7'-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-1-(4-nitrophenyl)-,
 (2R-[2.alpha.,(1R*,4S*),3.beta.]]-
 (9CI) (CA INDEX NAME)

LEE ANSWER 63 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACCESSION NUMBER: 1481440970 CAPLUS
 DOCUMENT NUMBER: 95-60970
 TITLE: Electron spin resonance studies of spin trapping. On the role of hydroxylamines and an oxaziridine in the formation of nitroxides following addition of hydroxyalkyl radicals to N-tert-butyl-alpha-phenylnitron
 AUTHOR: Coxon, James M.; Silbert, Bruce C.; Norman, G.
 CORPORATE SOURCE: Dep. Chem., Univ. York, York, YO1 5DD, Engl.
 J. Chem. Soc., Perkin Trans. 1 (1981), (2), 374-82
 SOURCE: CODEN JCPKDH; ISSN: 0300-9582
 DOCUMENT TYPE: Journal
 LANGUAGE: English



AB Oxidn. of 4-SO₂CH₂CH₂CH₂CH₂ with 2-ClC₆H₄CO₂H to give 1 was improved by carrying out the reaction in the presence of a phase-transfer catalyst, e.g., PhCH₂NEt₃Cl. Use of chiral catalysts gave optically active 1 of 3-10% optical purity. Thus prepd. were (+)- and (-)-1
 R: Ph, R₁ = H and I (R, R₁, and yield = Ph, 3-OCN, 83; Ph, 4-OCN, 8; Me, 10% in CH₂Cl₂, H₂O).
 IT 73844-59-2P 73845-00-8P 78377-89-6P
 80997-73-5P 80997-74-6P 80997-75-7P
 RE: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 80997-73-5 CAPLUS
 CN Oxaziridine, 2-(methylsulfonyl)-3-phenyl-, trans- (9CI) (CA INDEX NAME)

O: S, Ph
 N:

PH: 73844-59-2 CAPLUS
 CN Oxaziridine, 3-phenyl-2-(phenylmethylsulfonyl)-, trans- (9CI) (CA INDEX NAME)

LEE ANSWER 63 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

O: S, Ph
 N:

RN 80997-73-5 CAPLUS
 CN Oxaziridine, 3-phenyl-2-(phenylmethylsulfonyl)-, trans- (9CI) (CA INDEX NAME)

O: S, Ph
 N:

PH:

LEE ANSWER 63 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 O: S, Ph
 N:
 O:
 PH: 73844-59-2 CAPLUS
 CN Oxaziridine, 2-(4-nitrophenyl)-2-(phenylsulfonyl)-, trans- (9CI) (CA INDEX NAME)

O: S, Ph
 N: NO₂
 O:

RN 80997-73-5 CAPLUS
 CN Oxaziridine, 2-(3-nitrophenyl)-2-(phenylsulfonyl)-, trans- (9CI) (CA INDEX NAME)

O: S, Ph
 N:
 O: NO₂

RN 80997-74-6 CAPLUS
 CN Oxaziridine, 2-phenyl-2-(phenylsulfonyl)-, (2S-trans)- (9CI) (CA INDEX NAME)

LEE ANSWER 64 OF 89 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 1481440970 CAPLUS
 DOCUMENT NUMBER: 95-60970
 TITLE: Electron spin resonance studies of spin trapping. On the role of hydroxylamines and an oxaziridine in the formation of nitroxides following addition of hydroxyalkyl radicals to N-tert-butyl-alpha-phenylnitron
 AUTHOR: Coxon, James M.; Silbert, Bruce C.; Norman, G.
 CORPORATE SOURCE: Dep. Chem., Univ. York, York, YO1 5DD, Engl.
 J. Chem. Soc., Perkin Trans. 1 (1981), (2), 374-82
 SOURCE: CODEN JCPKDH; ISSN: 0300-9582
 DOCUMENT TYPE: Journal
 LANGUAGE: English

OMe:
 N:
 PH: I

AB ESR studies showed that when the alpha-hydroxyalkyl radicals (HO(R)R₁C•, (R = Me, R₁ = H, Me, Ph, R = R₁ = H) are photochem. generated in the presence of the spin trap PhCH₂N+(OMe)₂O- the resulting adducts PhCH₂ClOH R₁(N,OMe)₂O•, (R, R₁ as before) are photochem. stable but build up with time when irradiation is interrupted. This effect is due to oxidn. of the intermediate hydroxylamine (generated by nitroxide photolysis) by the oxaziridine 1, which is formed by photolysis of the trap. These observations, coupled with the results obtained when O₂ is admitted, indicate the need for care in the interpretation of spin-trapping expts.

IT 7731-34-2P
 RE: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, and oxidn. by, of butylphenylnitron-hydroxyalkyl radical adducts)
 RN 7731-34-2 CAPLUS
 CN Oxaziridine, 2-(1,1-dimethylethyl)-3-phenyl- (9CI) (CA INDEX NAME)

127 ANSWER 65 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

Ph O

CH C OEt

127 ANSWER 65 OF 89 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER 77290-55-2P CAPLUS

DOCUMENT NUMBER 77290-55-2P

TITLE Base promoted **oxidative** decarboxylation of

ethyl phenylglycidate via oxaziridine

synthesis; Minori, Minori, Fumio, Suda, Kohji;

Med. Coll. Pharm., Tokyo, 154, Japan

Medicines Lett. 1980, 21:44-4725-t

Chem. Abstr. ISSN: 04-4034

1980, 11:15472

ABSTRACT

1

Ph O

CH C OEt

AB Base-catalyzed decarboxylation of oxaziridines I (R = NO₂, Cl, Me, MeO,

H gave

8-phenylglycidate, 8-phenylglycidate, and PhCOC₂H₅.

11 77290-55-2P 77290-55-2P 77290-57-4P

77290-58-5P 77290-58-5P

RL RCT (Reaction); (Synthetic preparation); PREP (Preparation)

(prepn. and base-catalyzed **oxidative** decarboxylation of)

PN 77290-55-2 CAPLUS

CN 1-Oxaziridineacetic acid, 3-(4-chlorophenyl)-alpha-phenyl-,

ethyl ester

1901 (CA INDEX NAME)

Ph O

CH C OEt

N

O

Cl

PN 77290-56-3 CAPLUS

CN 2-Oxaziridineacetic acid, alpha,3-diphenyl-, ethyl ester 901

CA INDEX NAME

127 ANSWER 65 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

Ph O

CH C OEt

N

O

Me

PN 77290-56-3 CAPLUS

CN 1-Oxaziridineacetic acid, 3-(4-methylphenyl)-alpha-phenyl-,

ethyl ester

1901 (CA INDEX NAME)

Ph O

CH C OEt

N

Me

PN 77290-56-3 CAPLUS

CN 1-Oxaziridineacetic acid, 3-(4-methoxyphenyl)-alpha-phenyl-,

ethyl ester

1901 (CA INDEX NAME)

Ph O

CH C OEt

N

Me

PN 77290-56-3 CAPLUS

CN 1-Oxaziridineacetic acid, 3-(4-nitrophenyl)-alpha-phenyl-, ethyl

ester

1901 (CA INDEX NAME)

127 ANSWER 65 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

Ph O

CH C OEt

N

O

NO₂

CH CH_2 Ph
 CH Bu
 R
 Me
 PN 71445-72-4
 CN 2-Oxa2,11-dihydro-4-methoxyphenyl-1-oxaziridinyl-1-yl
 (9CI) (CA INDEX NAME)
 Me
 CH CH_2 Ph
 R
 Me
 PN 71445-72-4
 CN 2-Oxa2,11-dihydro-4-methoxyphenyl-1-oxaziridinyl-1-yl
 (9CI) (CA INDEX NAME)
 Me
 CH CH_2 Ph
 R
 Me
 PN 71445-72-4
 CN 2-Oxa2,11-dihydro-4-methoxyphenyl-1-oxaziridinyl-1-yl
 (9CI) (CA INDEX NAME)
 Me
 CH CH_2 Ph
 R
 Me
 PN 71445-72-4
 CN 2-Oxa2,11-dihydro-4-methoxyphenyl-1-oxaziridinyl-1-yl
 (9CI) (CA INDEX NAME)

CH CH_2 Ph
 CH Bu
 R
 Me
 PN 71445-72-4
 CN 2-Oxa2,11-dihydro-4-methoxyphenyl-1-oxaziridinyl-1-yl
 (9CI) (CA INDEX NAME)
 Me
 CH CH_2 Ph
 R
 Me
 PN 71445-72-4
 CN 2-Oxa2,11-dihydro-4-methoxyphenyl-1-oxaziridinyl-1-yl
 (9CI) (CA INDEX NAME)
 Me
 CH CH_2 Ph
 R
 Me
 PN 71445-72-4
 CN 2-Oxa2,11-dihydro-4-methoxyphenyl-1-oxaziridinyl-1-yl
 (9CI) (CA INDEX NAME)

DE ANSWER 67 OF 68 CAPLUS COPYRIGHT 2002 ACS
 ANSWER NUMBER: 71445-72-4
 DOCUMENT NUMBER: 71445-72-4
 TITLE: Chemistry of oxaziridines. 1. Synthesis and structure of 2-arenevinyl-2-aryloxaziridines. A new class of oxaziridines
 AUTHOR: Davis, Franklin A.; Lamendola, Joseph, Jr.
 JACS: 1980, 102(16), 2000-5
 Cite: Sander, Edgar; Sederberg, Thomas W.; Sederberg, Thomas W.; Sederberg, Robert
 CORPORATE PRICE: Dept. Chem., Drexel Univ., Philadelphia, PA.
 SOURCE: J. Am. Chem. Soc. (1980), 102(16), 2000-5
 JOURNAL: JACS: ISSN: 0002-7863
 LANGUAGE: English

AB A new class of oxaziridine Derivs. 1 (R, R' = Ph, substituted phenyl, etc.) were prep'd by the m-ClO₂H₄CO₂H oxidn of sulfoximines PSO₂NHCH₂CH₂. These compds. are the first stable examples of a ring system to have a substituent other than C attached to N and are stabilized by a highly electrophilic oxaziridine O atom. The presence of the powerful electron attracting sulfonyl group attached to N apparently has little effect on the structure of the oxaziridine ring. Of more significance are the observations that the C-N bond in 1 is opposite to one of the sulfonyl oxygens and that the C-N bond length implies little if any conjugative interaction between C and N.
 DE 69849-45-2P 71127-56-5P 73844-91-4P
 73844-92-5P 73844-93-6P 73844-94-7P
 73844-95-8P 73844-96-9P 73844-97-0P
 73844-98-1P 73844-99-2P 73845-00-8P
 73890-33-2P
 RE (R, R' properties); RIR (synthetic preparation); PREP
 Preparation: light and NMR of
 PN 71445-72-4 CAPLUS

DE ANSWER 68 OF 68 CAPLUS COPYRIGHT 2002 ACS (Continued)
 CN 2-oxaziridine, 2-[(4-methoxyphenyl)sulfonyl]-, (2R,3R)-rel- (9CI) (CA INDEX NAME)
 CH CH_2 Ph
 R
 Me
 PN 71127-56-5 (9CI)
 CN 2-oxaziridine, 2-[(4-methoxyphenyl)sulfonyl]-3-phenyl-, trans- (9CI) (CA INDEX NAME)
 Me
 O S O
 N
 O
 Ph
 PN 71127-56-5 (9CI)
 CN 2-oxaziridine, 2-[(4-methoxyphenyl)sulfonyl]-3-phenyl-, trans- (9CI) (CA INDEX NAME)



Me

RN 73844-94-0 CAPLUS

CN Oxaziridine, 2-[(4-methylphenyl)sulfonyl]-3-phenyl, trans- (9CI)

CA INDEX NAME

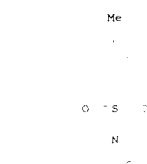
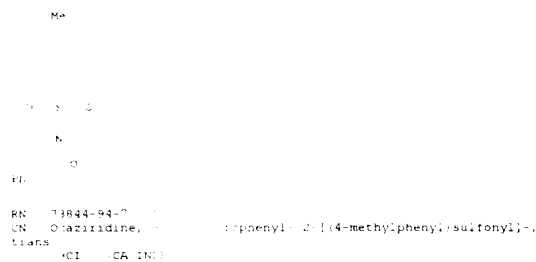


Me

RN 73844-94-0 CAPLUS

CN Oxaziridine, 2-[(4-methylphenyl)sulfonyl]-3-phenyl, trans- (9CI)

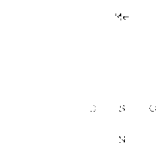
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RN 73844-94-0 CAPLUS

CN Oxaziridine, 2-[(4-methylphenyl)sulfonyl]-3-phenyl, trans- (9CI)

CA INDEX NAME



CN

RN 73844-94-0 CAPLUS

CN Oxaziridine, 2-[(4-chlorophenyl)sulfonyl]-3-phenyl, trans- (9CI)

CA INDEX NAME



RN 73844-94-0 CAPLUS

CN Oxaziridine, 2-[(4-chlorophenyl)sulfonyl]-3-phenyl, trans- (9CI)

CA INDEX NAME



RN 73844-94-0 CAPLUS

CN Oxaziridine, 2-[(4-chlorophenyl)sulfonyl]-3-phenyl, trans- (9CI)

CA INDEX NAME



RN 73844-94-0 CAPLUS

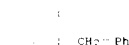
CN Oxaziridine, 2-[(4-chlorophenyl)sulfonyl]-3-phenyl, trans- (9CI) (CA INDEX NAME)



RN 73844-94-0 CAPLUS

CN Oxaziridine, 2-[(4-chlorophenyl)sulfonyl]-3-phenyl, trans- (9CI)

CA INDEX NAME



RN 73844-94-0 CAPLUS

CN Oxaziridine, 2-[(4-chlorophenyl)sulfonyl]-3-phenyl, trans- (9CI)

Q2N ANSWER 69 OF 89 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 72955-02-3P
 DOCUMENT NUMBER: 73035-98-0P
 TITLE: Reactions of anions of N-benzylidenebenzylamines and related compounds. A simple route to α -substituted benzylamines
 AUTHOR(S): Arrowsmith, John E.; Cook, Michael J.; Hardstone, David J.
 CORPORATE SOURCE: J. Chem. Soc., Perkin Trans. 1 (1979), (1), 2364 R
 SOURCE: J. Chem. Soc., Perkin Trans. 1 (1979), (1), 2364 R
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: Anionic anions of N-benzylidenebenzylamines and pyridine analogs were generated and the position of alkylation found to depend on the ring substitution, proceeding preferentially at the C atom α to the more electron-deficient system. E.g. RCH=NCH₂Ph (I; R = 4-pyridyl) gave RCH=NCH₂Ph (R = 4-pyridyl, Al = Me, CHMe₂) as the sole alkylation product, whereas I (R = mesityl) gave mainly or exclusively RCH=NCH₂Ph (R = mesityl, R₁ = alkyl). Hydrolytic cleavage of the alkylated products gave α -alkylbenzylamines and oxidative cleavage gave the corresponding ketones.
 IT 72955-02-3P 72955-03-4P 73035-98-0P
 RN: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
 CN Oxaliridine, 2-(cyclohexylphenylmethyl)-3-phenyl- (9CI) (CA INDEX NAME)

t.B.

n.

Ph

L26 ANSWER 70 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Fr
 H⁺ (CH₂)₂
 O
 Ph
 RN 7 005-98-0
 CN Oxaliridine, 2-(phenylethyl)- (9CI) (CA INDEX NAME)
 Ph
 CH₂-Me
 N
 Ph
 Ph

L26 ANSWER 70 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 Fr
 H⁺ (CH₂)₂
 O
 Ph
 RN 7 005-98-0
 CN Oxaliridine, 2-(phenylethyl)- (9CI) (CA INDEX NAME)
 Ph
 CH₂-Me
 N
 Ph
 Ph

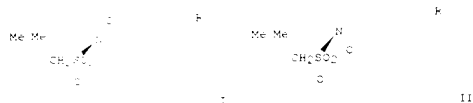
Ph

Ph

Ph

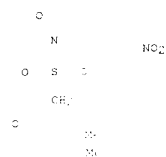
RN 7 005-98-0 CAPLUS
 CN Oxaliridine, 2-phenyl-2-(phenyloctyl)- (9CI) (CA INDEX NAME)

L26 ANSWER 71 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACCESSION NUMBER 72530-30-8P
 DOCUMENT NUMBER 72581-75-0P
 TITL: Sequential treatment of 1-phenyl-1-sulfonamide with
 aziridine and oxaziridine gave diastereoisomeric mixts. of
 oxaziridines I and II. The oxaziridines were used for asym.
 oxidns of PhMe, p-MeOC6H4Me, and PhSCMe in CHCl3 at 25°C of
 10 min. Source: J. R. K. P. J. C. Me. R. L. McCr. J. S. Me. J. S. Me.
 AB: Sequential treatment of 1-phenyl-1-sulfonamide with
 aziridine and oxaziridine gave diastereoisomeric mixts. of
 oxaziridines I and II. The oxaziridines were used for asym.
 oxidns of PhMe, p-MeOC6H4Me, and PhSCMe in CHCl3 at 25°C of
 10 min. Source: J. R. K. P. J. C. Me. R. L. McCr. J. S. Me. J. S. Me.
 RN: 72530-30-8P 72581-75-0P
 CN: Oxaziridine, 2-[[1-(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-2-nitrophenyl]-,
 (2S-[2.alpha.,3.alpha.,4.alpha.,5.alpha.,6.alpha.])
 (CA INDEX NAME)

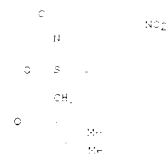


AB: Sequential treatment of 1-phenyl-1-sulfonamide with
 aziridine and oxaziridine gave diastereoisomeric mixts. of
 oxaziridines I and II. The oxaziridines were used for asym.
 oxidns of PhMe, p-MeOC6H4Me, and PhSCMe in CHCl3 at 25°C of
 10 min. Source: J. R. K. P. J. C. Me. R. L. McCr. J. S. Me. J. S. Me.
 RN: 72530-30-8P 72581-75-0P
 CN: Oxaziridine, 2-[[1-(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-2-nitrophenyl]-,
 (2S-[2.alpha.,3.alpha.,4.alpha.,5.alpha.,6.alpha.])
 (CA INDEX NAME)

L26 ANSWER 71 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)



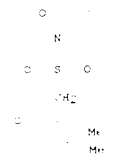
RN: 72530-30-8P 72581-75-0P
 CN: Oxaziridine, 2-[[1-(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-2-nitrophenyl]-,
 (2S-[2.alpha.,3.alpha.,4.alpha.,5.alpha.,6.alpha.])
 (CA INDEX NAME)



L26 ANSWER 71 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)



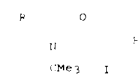
RN: 72530-30-8P 72581-75-0P
 CN: Oxaziridine, 2-[[1-(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-2-nitrophenyl]-,
 (2S-[2.alpha.,3.alpha.,4.alpha.,5.alpha.,6.alpha.])
 (CA INDEX NAME)



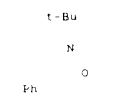
RN: 72530-30-8P 72581-75-0P
 CN: Oxaziridine, 2-[[1-(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-2-nitrophenyl]-,
 (2S-[2.alpha.,3.alpha.,4.alpha.,5.alpha.,6.alpha.])
 (CA INDEX NAME)

L26 ANSWER 72 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)
 ACCESSION NUMBER 72530-30-8P
 DOCUMENT NUMBER 72581-75-0P
 TITL: Oxidation reaction of ylide. 6. A new
 oxidation reaction of aziridinones
 AUTHOR(S): Watanabe, Masamichi
 CORPORATE SOURCE: Shionogi and Co., Ltd., Osaka, Japan
 SOURCE: Chem. Soc. (1979), 101(5), 1323-4
 ACSAT: ISSN: 0002-7862

DOCUMENT TYPE:
 LANGUAGE:
 GI



AB: Aziridines
 via a
 vigorous
 single-st
 type of
 reaction
 1,3-di-ter
 CHD. This appears
 aziridine
 IT 7731-34-2P
 RL: SPN
 (pre)
 RN 7731-34
 CN Oxaziridine, 2-[[1-(7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl)methylsulfonyl]-3-phenyl]- (9CI) (CA INDEX NAME)



N
 N
 O

RM (CH₃)₂ CAPLUS
 CN Oxallilaine, 1,3'-[1,4-phenylene]bis[2-ethyl 5CI] (CA INDEX
 NAME

[illegible]

Ph
CH Me
N
Ph
RN 64813-97 CAPLUS
CN Oxaziridine, 3-phenyl-2-(1-phenylethyl)-,
[2R-[2.alpha.,3.alpha.]]- (9CI) (CA INDEX NAME)
Ph
RN 64813-97 CAPLUS
CN Oxaziridine, 3-phenyl-2-(1-phenylethyl)-,
[2R-[2.alpha.,3.alpha.]]- (9CI) (CA INDEX NAME)
Ph
CH Me
N
O
Ph
RN 64813-97 CAPLUS
CN Oxaziridine, 2-[5-methyl-2-(1-methylethyl)cyclohexyl]-3-phenyl-,
[1R-[1.alpha.,2S*,3R*,2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)

Ph
1-Ph
N
Ph
RN 64813-97 CAPLUS
CN Oxaziridine, 2-(1-phenylethyl)-, [2R-
[2.alpha.]]- (9CI) (CA INDEX NAME)
Ph
CH Me
N
O
Ph
RN 64813-97 CAPLUS
CN Oxaziridine, 2-(1-phenylethyl)-, [2R-
[2.alpha.]]- (9CI) (CA INDEX NAME)
Ph
CH Me
N
O
Ph
RN 64813-97 CAPLUS
CN Oxaziridine, 2-(1-methylethyl)cyclohexyl-phenyl-,
[1R-[1.alpha.,5.alpha.]]- (9CI) (CA INDEX NAME)

Me
1-Ph
N
Ph
RN 64814-98 CAPLUS
CN Oxaziridine, 2-[5-methyl-2-(1-methylethyl)cyclohexyl]-3-phenyl-,
[1R-[1.alpha.,2S*,3R*,2.beta.,5.alpha.]]- (9CI) (CA INDEX NAME)
Me
1-Ph
N
Ph
RN 64814-98 CAPLUS
CN Oxaziridine, 2-[4-bromophenyl]-2-(1-phenylethyl)-, [2S-
[2.alpha.,3S*,4.alpha.]]- (9CI) (CA INDEX NAME)
Ph
CH Me
N
O
Ph
RN 64814-98 CAPLUS
CN Oxaziridine, 2-[4-bromophenyl]-2-(1-phenylethyl)-, [2S-
[2.alpha.,3S*,4.alpha.]]- (9CI) (CA INDEX NAME)

Ph
CH Me
N
O
Ph
RN 64814-98 CAPLUS
CN Oxaziridine, 2-[4-bromophenyl]-2-(1-phenylethyl)-, [2S-
[2.alpha.,3S*,4.alpha.]]- (9CI) (CA INDEX NAME)

L26 ANSWER 75 OF 89 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 63160-15-6
 DOCUMENT NUMBER: 63160-15-6
 TITLE: Photolysis of 2-[[4-methoxyphenyl]sulfonyl]-3-phenyl-4-oxaziridine
 AUTHOR: Davis, Franklin A.; Nadir, Upender K.;
 CORPORATE SOURCE: Dep. Chem., Drexel Univ., Philadelphia, Pa.,
 U.S.A.
 SOURCE: Tetrahedron Lett. 1977, (20), 1721-4
 CODEN: TETLAA
 DOCUMENT TYPE: Source
 LANGUAGE: English

L26 ANSWER 75 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

OMe

O S O

N

O

Ph

Ph

AB Photolysis of the oxaziridines I (R = MeO, Me, Cl) in MeCN under N₂ resulted in N-O bond cleavage and formation (22-55%) of 4-RC₆H₄SO₂NH₂. Minor products were 4-RC₆H₄SO₂CH₃ and PhCHO. Photolysis of I (R = MeO) in the presence of O₂, a triplet quencher, did not affect the yield of II. 4-Methoxybenzylamine (II) however, in the photolysis of I (R = Me) in MeCN in the presence of OMe, both triplet sensitizers, the yield of II was increased and that of sulfonamide increased. Thus the anide is formed from the oxaziridine singlet state whereas the minor products, 4-Methoxybenzylamine and PhCHO, were formed from the oxaziridine triplet state.
 IT 64705-26-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 (synth. and photolysis of, mechanism of
 RN 64705-26-6 CAPLUS
 CN Oxaziridine, 2-[[4-methoxyphenyl]sulfonyl]-3-phenyl-, cis- (9CI)
 INDEX NAME)

L26 ANSWER 76 OF 89 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 63160-13-4
 DOCUMENT NUMBER: 63160-13-4
 TITLE: 2-Arylsulfonyl-3-phenyloxaziridines: a new stable oxaziridine derivatives
 AUTHOR: Davis, Franklin A.; Nadir, Upender K.; Kluwer,
 Edward
 CORPORATE SOURCE: Dep. Chem., Drexel Univ., Philadelphia, Pa.,
 U.S.A.
 SOURCE: J. Chem. Soc., Chem. Commun. (1977), (11), 25-6
 CODEN: JCCCAT
 DOCUMENT TYPE: Journal
 LANGUAGE: English

L26 ANSWER 76 OF 89 CAPLUS COPYRIGHT 2002 ACS (Continued)

Me

O S O

N

O

Ph

RN 63160-13-4
 CN Oxaziridine, 2-[[4-methoxyphenyl]sulfonyl]-3-phenyl-, (9CI) (CA INDEX NAME)

C

O S Ph

N

O

Ph

RN 63160-14-5
 CN Oxaziridine, 2-[[4-methoxyphenyl]sulfonyl]-3-phenyl-, (9CI) (CA INDEX NAME)

Cl

O S O

N

O

Ph

RN 63160-15-6
 CN Oxaziridine, 2-[[4-methoxyphenyl]sulfonyl]-3-phenyl-, (9CI) (CA INDEX NAME)

O
 Ph

AB The title oxaziridines I (R = Me, H, Cl, N 2) were prep'd. by oxidn of 4-RC₆H₄SO₂NHCHPh (n = 0, 2) with 5 and 2 equiv. resp. m-ClO₃CH₂COOH. Refluxing I in CHCl₃ con'g. small amts. of EtOH and H₂O for 1-4 h gave 23-56% PhCHO, 14-32% PhCN, 45-75% 4-RC₆H₄SO₂NH₂. 5-2% 4-RC₆H₄SO₂NH₂ and 12-3% 4-RC₆H₄SO₂Et. I (R = NO₂) also gave 10-18% 4-RC₆H₄SO₂NH₂. The decompn. may involve formation of 4-RC₆H₄SO₂NHCHPh which is attacked by H₂O or EtOH or rearranges to 4-RC₆H₄SO₂NHCHPh. Fragmentation of I to a nitrene and/or radical intermediates can explain the formation of PhCHO and 4-RC₆H₄SO₂NH₂.
 IT 63160-12-3P 63160-13-4P 63160-14-5P
 63160-15-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation);
 (synth. and thermal decompn. of, mechanism of
 RN 63160-12-3 CAPLUS
 CN Oxaziridine, 2-[[4-methoxyphenyl]sulfonyl]-3-phenyl-, (9CI) (CA INDEX NAME)

No.

O S

N

PI

ACCESSION NUMBER: 6661 CAPLUS
DOCUMENT NUMBER: 1
TITLE: Oxidation of the use of peroxycamphoric acid as an asymmetric oxidizing agent
AUTHOR(S): W. H. Rinaldi, P. L. M. Sci., Univ. Illinois, Urbana, Ill., USA
SOURCE: J. Org. Chem. (1977), 42(12), 2080-2
DOCUMENT TYPE: RESEARCH
LANGUAGE: English
AB: The usual method for the synthesis of oxaziridines gives significant yields of a mixture of diastereoisomers. The use of this method with chiral sulfoxides previously reported with 2-tert-butyl-2-oxaziridine was obtained in 60% yield.
IT: 62058-74-4
RN: 6,058-74-4
CN: Oxaziridine
CA INDEX NAME: Oxaziridine

t-Bu

N

O

RN 6,058-74-4

ACCESSION NUMBER: 1876:47746 CAPLUS
DOCUMENT NUMBER: 85:7746
TITLE: Studies on the configuration at chiral nitrogen in 2-(S-(1-phenylethyl))-3-p-bromophenyloxaziridine
AUTHOR(S): Bozucka Ledochowska, M.; Konitz, A.; Hempel, A.; Dauter, Z.; Borowski, E.; Belzeck, C.; Mostowicz, J.
CORPORATE SOURCE: Dep. Pharm. Technol. Biochem. Tech. Univ., Gdansk, Pol.
SOURCE: Tetrahedron Lett. (1976), (12), 1025-8
CODEN: TETLEA
DOCUMENT TYPE: Journal
LANGUAGE: English
CA INDEX NAME: Oxaziridine



AB: Oxidn. of E-(+)-p-BrC₆H₄CH=CHMePh with m-ClC₆H₄CO₂OH gave a 58:42 (7:15.9:4.9 mixt. of oxaziridine diastereoisomers. The abs. configuration of the predominant isomer I was detd. as (+)-2R,3R by X-ray anal.

IT: 60183-42-8P 60183-43-9P 60183-44-0P
RN: 60183-42-8 CAPLUS
CN: Oxaziridine, 3-(4-bromophenyl)-2-(1-phenylethyl)-, (2R-12R)-[R*,3.alpha.]- (CA INDEX NAME)
CA INDEX NAME: Oxaziridine

Ph

CH Me

N

O

Br

RN 60183-42-8 CAPLUS
CN: Oxaziridine, 3-(4-bromophenyl)-2-(1-phenylethyl)-, (2R-12R)-[R*,3.alpha.]- (CA INDEX NAME)
CA INDEX NAME: Oxaziridine

Ph

CH Me

N

O

RN 60183-44

CN: Oxaziridine

[2.alpha.]-

(+)-2-(1-phenylethyl)-, (2R-12R)- (CA INDEX NAME)

Ph

CH Me

N

O

11c ANSWER 79 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 59904-66-7P
 DOCUMENT NUMBER: 59904-66-7P
 TITLE: Photoreduction at a chiral pyramidal
 nitrone
 AUTHOR: O'Leary, Johannes; Boyd, Derek R.; Campbell,
 Roger M.
 CORRESPONDING AUTHOR: Boyd, Derek R.
 SOURCE: J. Chem. Soc., Chem. Commun., 1977, 5, 1673
 DOCUMENT TYPE: J. Chem. Soc., Chem. Commun.
 LANGUAGE: English

RN 59904-66-7P
 CN Oxaziridine
 INDEX NAME

AB Optically active oxaziridines, prepd. by asymmetric oxidn. of
 the corresponding imines, underwent photoreduction by a
 mechanism involving C-N bond cleavage and formation of a nitrene
 intermediate. Their
 structure: I, R = isopropyl, Me, CHMe₂, CMe₃; II, R = isopropyl, Me, CHMe₂, CMe₃; III, and partially racemized III. Under identical
 conditions, I, R = isopropyl, Me, CHMe₂, CMe₃; IV, gave III; IV, unchanged
 photoreduced and II, to CHMe₂.
 IT 59904-66-7P 59905-66-7P 59905-66-7P
 RL R. O. Peatant; SYN. Synthetic preparation; PREP. (Preparation
 of opt. and photoreduction of; mechanism of;
 RN 59904-66-7P CAPLUS
 CN Oxaziridine, 2-methyl-3-(4-nitrophenyl), trans- (9CI) (CA
 INDEX NAME)

Me
 N

RN 59904-66-7P CAPLUS
 CN Oxaziridine, 2-methyl-3-(4-nitrophenyl), cis- (9CI) (CA
 INDEX NAME)

11c ANSWER 79 CAPLUS COPYRIGHT 2002 ACS (Continued)

Me
 N
 O

RN 59904-66-7P
 CN Oxaziridine
 9CI (CA INDEX NAME)

1-Pr
 N
 O

RN 59905-66-7P
 CN Oxaziridine
 9CI (CA INDEX NAME)

1-Pr
 N
 O

RN 59905-66-7P
 CN Oxaziridine
 9CI (CA INDEX NAME)

11c ANSWER 79 CAPLUS COPYRIGHT 2002 ACS (Continued)

Me
 N
 O

NO2

AB Catalytic reduction of azoxy compounds. III. Reduction of
 alkane dimers as an approach to
 alkane synthesis
 A. Grant; Chi, Min-Shong; Clark,
 Melvin S.
 CORPORA SOURCE
 USA
 SOURCE
 DOCUMENT TYPE:
 LANGUAGE:
 G: For di-
 AB Catal.
 catalyst
 was to
 substitu-
 making a
 alkyl/alkyl
 overreduc-
 becomes a
 preparable by
 peracetic
 oxidn.
 IT 39245-63
 57527-57-
 RN 57527-57-
 CN Oxaziridine

11c ANSWER 79 CAPLUS
 ACCESSION NUMBER: 39245-63
 DOCUMENT NUMBER: 57527-57-
 TITLE: Catalytic reduction of azoxy compounds. III. Reduction of
 alkane dimers as an approach to
 alkane synthesis
 A. Grant; Chi, Min-Shong; Clark,
 Melvin S.
 CORPORA SOURCE
 USA
 SOURCE
 DOCUMENT TYPE:
 LANGUAGE:
 G: For di-
 AB Catal.
 catalyst
 was to
 substitu-
 making a
 alkyl/alkyl
 overreduc-
 becomes a
 preparable by
 peracetic
 oxidn.
 IT 39245-63
 57527-57-
 RN 57527-57-
 CN Oxaziridine

Me
 N
 O

RN 41244
 CN Oxaziridine

Me
 N
 O

Ph
 RN 57527-57-
 CN Oxaziridine

LD6 ANSWER 1 OF 19 CAPLUS EIGHT 2002 ACS (Continued)

t-Bu

N

O

RN 21105-4
CN Oxaziridine, 4-(p-nitrophenyl)-2-phenylmethyl- (8CI) (CA INDEX NAME)

CH₃ CH₃

N

O

RN 21105-4
CN Oxaziridine, 2-(p-chlorophenyl)-3-(p-nitrophenyl)- (8CI) (CA INDEX NAME)

Cl

CH₃

N

O₂N

RN 21105-4
CN Oxaziridine, 2-(p-chlorophenyl)-3-(p-nitrophenyl)- (8CI) (CA INDEX NAME)

LD6 ANSWER 2 OF 19 CAPLUS EIGHT 2002 ACS (Continued)

Me

CH₃

N

O

O₂N

LD6 ANSWER 3 OF 19 CAPLUS EIGHT 2002 ACS (Continued)

Cl

O₂N

RN 21105-4
CN Oxaziridine, 1-(p-nitrophenyl)-2-phenylmethyl- (8CI) (CA INDEX NAME)

O₂N

RN 21105-4
CN Oxaziridine, 1-(p-nitrophenyl)-2-phenylmethyl- (8CI) (CA INDEX NAME)

LD6 ANSWER 4 OF 19 CAPLUS EIGHT 2002 ACS (Continued)

ACCESSION NO. 21105-4
DOCUMENT NO. 21105-4
TITLE: Oxaziridines
AUTHOR(s): Jyotirmoy, Truitt, Price
CORPORATE S: State Univ., Denton, Tex., USA
SOURCE: J. Org. Chem., 1969, 34, 961-2
MAR

DOCUMENT TITLE

LANGUAGE: English

GI For dia

AB Oxaziridine

INPUB W

IT 23898-5

23898-5

23898-6

23898-6

R: S

SP

RN 23898

CN Oxaziridine

INDEX NAME

N

O

RN 23898
CN Oxaziridine, 1-(p-nitrophenyl)-2-cyclohexyl- (8CI) (CA INDEX NAME)

N

O

RN 23898
CN Oxaziridine, 1-(p-nitrophenyl)-2-cyclohexyl- (8CI) (CA INDEX NAME)

114 ANSWER -- 114-49 CAPLUS -- BRIGHT 2002 ACS -- Continued --

N

INDEX

RN 1385- CAPLUS
CN Oxadiazine, 2-cyclohexyl-4-nitrophenyl- (8CI) (CA INDEX NAME)

N

RN 1385- CAPLUS
CN Oxadiazine, 2-cyclohexyl-4-nitrophenyl- (8CI) (CA INDEX NAME)

N

INDEX

RN 1385- CAPLUS
CN Oxadiazine, 2-(3-chlorophenyl)-2-(1,1-dimethylethyl)- (8CI) (CA INDEX NAME)

124 ANSWER -- 124-49 CAPLUS -- BRIGHT 2002 ACS -- Continued --

t-Bu

N

O

RN 1385- CAPLUS
CN Oxadiazine, 2-(1,1-dimethylethyl)-2-(4-nitrophenyl)- (8CI) (CA INDEX NAME)

t-Bu

N

O

RN 1385- CAPLUS
CN Oxadiazine, 2-(4-nitrophenyl)-2-(1,1-dimethylethyl)- (8CI) (CA INDEX NAME)

t-Bu

N

O

O₂N

RN 1385- CAPLUS
CN Oxadiazine, 2-(4-nitrophenyl)-2-(1,1-dimethylethyl)- (8CI) (CA INDEX NAME)

t-Bu

N

O

RN 1385- CAPLUS
CN Oxadiazine, 2-(4-nitrophenyl)-2-(1,1-dimethylethyl)- (8CI) (CA INDEX NAME)

114 ANSWER -- 114-49 CAPLUS -- BRIGHT 2002 ACS -- Continued --

Me

CH₃

N

O

RN 1385- CAPLUS
CN Oxadiazine, 2-(4-nitrophenyl)-2-(1,1-dimethylethyl)- (8CI) (CA INDEX NAME)

N

O

Me

CH₃

RN 1385- CAPLUS
CN Oxadiazine, 2-(4-nitrophenyl)-2-(1,1-dimethylethyl)- (8CI) (CA INDEX NAME)

t-Bu

N

O

Me

CH₃

114 ANSWER --

114-49 CAPLUS

DOCUMENT NO.

TITLE

114

AUTHOR

Kiyoshi

CORPORATE SOURCE

DOCUMENT TYPE

LANGUAGE

61

AR Oxidn.

61

Me, Bu

61

61

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61

BRIGHT 2002 ACS

61 CAPLUS

of cumulated double bond compounds.

of diphenylketene with oxaziranes

Foshiki, Minami, Toru, Yasuda,

Shio

W. Suita, Japan

in Lett. (1984), (4), 263-5

RAY

CA Issue

more with PhCO₂OH gave the

Ph, Et: R₁ = H, H, H, Me, Me; R₂ =

4-6.degree./9 mm., 90.degree./1.5

0.4 mm., and 76.degree./60 mm. in

melting 7, 94, 90, 84, and 74

stirred in C₆H₆ with addn. of I at

ketone or aldehyde (R₁C=O) and the

matog. over Al₂O₃ gave

oxazirane, R₂, yield VII, and m.p.

III, Bu, 5), 125-6.degree.; IV,

5-6.degree. VI, Bu, 38,

ed by gas liquid chromatog. and ir

m/e 459 M+, 402, 332, nu.

9.3. Elemental analyses for VII

oxazirane N atom attacks the center C

of an alpha-lactam by release

reaction of the alpha-lactam with

alpha-lactam was too unstable for

2P

PREP (Preparation).

61

(6CI, 7CI, 8CI, 9CI) (CA INDEX

=> E KLAUSENER ALEXANDER/AU 15
 E1 1 KLAUSEN ULLA/AU
 E2 1 KLAUSENER A/AU
 E3 110 --> KLAUSENER ALEXANDER/AU
 E4 1 KLAUSENER FRANKISKA/AU
 E5 1 KLAUSENER GEORGES AU
 E6 1 KLAUSENER P. AU
 E7 1 KLAUSENER PETRA/AU
 E8 1 KLAUSEF A/AU
 E9 1 KLAUSEF A G/AU
 E10 1 KLAUSEF ANDREAS G/AU
 E11 4 KLAUSEF D K/AU
 E12 1 KLAUSEF GERNOT AU
 E13 1 KLAUSEF H E/AU
 E14 1 KLAUSEF G/AU
 E15 14 KLAUSEF F/AU
 E16 1 KLAUSEF F J/AU
 E17 1 KLAUSEF F M/AU
 E18 10 KLAUSEF FAIRBER/AU
 E19 1 KLAUSEF FAIRER J/AU
 E20 1 KLAUSEF FAIRER JOSEF/AU
 E21 1 KLAUSEF FENACE AU
 E22 2 KLAUSEF FUTH/AU
 E23 7 KLAUSEF S/AU
 E24 1 KLAUSEF S J/AU
 E25 10 KLAUSEF STEFAN AU

=> S (E2 OR E3) AND (AZIRID?)

1 "KLAUSENER A"/AU
 110 "KLAUSENER ALEXANDER"/AU
 1078 AZIRID?
 L27 1 ("KLAUSENER A"/AU OR "KLAUSENER ALEXANDER"/AU) AND (AZIRID?)

=> S (E2 OR E3) AND (OXA?)

1 "KLAUSENER A"/AU
 110 "KLAUSENER ALEXANDER"/AU
 19113 OXA?
 L28 0 ("KLAUSENER A"/AU OR "KLAUSENER ALEXANDER"/AU) AND (OXA?)

=> d 128 1-6 ibib abs hitstr

=: E LANGER FEINHARD/AU 25

E1	1	LANGER RAVEL/AU
E1	11	LANGER FEBECCA C/AU
E1	50 -->	LANGER FEINHARD/AU
E4	1	LANGER FENATE/AU
E5	1	LANGER RICHARD/AU
E6	1	LANGER RICHARD B/AU
E7	5	LANGER RICHARD M/AU
E8	513	LANGER ROBERT/AU
E9	3	LANGER ROBERT D/AU
E10	4	LANGER ROBERT H/AU
E11	2	LANGER ROBERT J/AU
E12	3	LANGER ROBERT M/AU
E13	154	LANGER ROBERT S/AU
E14	13	LANGER ROBERT S JR/AU
E15	1	LANGER ROBERT SAMUEL/AU
E16	1	LANGER ROGER/AU
E17	1	LANGER ROGER I/AU
E18	13	LANGER ROGER L/AU
E19	1	LANGER ROGER LEON/AU
E20	5	LANGER ROLF/AU
E21	6	LANGER ROSELORE/AU
E22	5	LANGER RUDOLF/AU
E23	1	LANGER RUDOLPH/AU
E24	1	LANGER RUDOLPH E/AU
E25	1	LANGER RUEDIGER/AU

=: S (E3) AND (OKA?)

50 "LANGER REINHARD"/AU

191135 OKA?

L13 1 ("LANGER FEINHARD"/AU) AND (OKA?)

=: S (E3) AND (OKA?)

50 "LANGER REINHARD"/AU

191135 OKA?

L30 1 ("LANGER FEINHARD"/AU) AND (OKA?)

=: d 130 ibib abs hitstr


```

= E FATSCH STEPHAN/AU 25
E1      2      FATSCH R/AU
E2      1      FATSCH SARAH B/AU
E3      1 --> FATSCH STEPHAN/AU
E4      2      FATSCH U/AU
E5      1      FATSCH WILLIAM C/AU
E6      1      FATSCHAN WALTER C/AU
E7      1      FATSCHAT GUENTHER/AU
E8      3      FATSCHBACHER L/AU
E9      8      FATSCHBACHER LOTHAR/AU
E10     1      FATSCH E/AU
E11     4      FATSCHER M/AU
E12     9      FATSCHER MANFRED AU
E13     1      FATSCHER H/AU
E14     2      FATSCHILLER D/AU
E15     4      FATSCHKO D/AU
E16     1      FATSCHKO DIETK/AU
E17     1      FATSCHKO K W/AU
E18     1      FATSCHKO M/AU
E19     17     FATSCHOW M/AU
E20     1      FATSCHOW MAX/AU
E21     1      FATSCHOW R/AU
E22     3      FATSCHOW S/AU
E23     2      FATSEEV A F/AU
E24     13     FATSEEV S A/AU
E25     5      FATSEK J C/AU

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= . d e3

'E3' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

```

ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data and PI table (default)
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
DMAX ----- MAX, delimited for post-processing
FAM ----- AN, FI and PRAI in table, plus Patent Family data
FBIB ----- AN, BIB, plus Patent FAM
IND ----- Indexing data
IPC ----- International Patent Classifications
MAX ----- ALL, plus Patent FAM, RE
PATS ----- PI, SO
SAM ----- CC, SK, TI, ST, IT
SCAN ----- CC, SK, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STL ----- BIB, IPC, and NCL

IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels

```



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=> E DOCKNER MICHAEL/AU 25
E1      1      DOCKKO GO JEONG/AU
E2      1      DOCKKO S/AU
E3      9 --> DOCKNER MICHAEL/AU
E4      1      DOCKNER T/AU
E5      138     DOCKNER TONI/AU
E6      1      DOCKNEY MICHAEL L/AU
E7      1      DOCKFAY CHARLES J/AU
E8      1      DOCKFAY EDWARD/AU
E9      8      DOCKFAY G AU
E10     210     DOCKFAY G J AU
E11     1      DOCKFAY GEORGE H/AU
E12     4      DOCKFAY GRAHAM/AU
E13     78     DOCKFAY GRAHAM J/AU
E14     1      DOCKFAY HARRY J/AU
E15     4      DOCKFAY J J/AU
E16     1      DOCKFAY JACQUELINE J/AU
E17     1      DOCKFAY JOHN LINDSAY/AU
E18     1      DOCKFAY M/AU
E19     13     DOCKFAY THOMAS/AU
E20     1      DOCKFAY TOM/AU
E21     2      DOCKFEE C/AU
E22     2      DOCKFEE CHRISTOPHER N/AU
E23     1      DOCKFELL ALICE W/AU
E24     1      DOCKFELL D H/AU
E25     1      DOCKFELL DAVID/AU

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=> S (E3)

L31 9 ("DOCKNER MICHAEL"/AU)

=> d 131 1-9 ibib abs hitstr

131 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
 APPLICATION NUMBER: 2002 5.445 CAPLUS
 TITLE: Polyhalogen substituted cinnamic acids and derivatives and a process for the preparation of polyhalogen substituted cinnamic acids and derivatives
 INVENTOR(S): Linder, Walter; Kienle, Peter; Trachsel, Robert; Michael, Dockner
 PATENT APPLICANT(S): BASF AG, Appl. Publ. Germany
 INVENTOR(S): BASF AG, Appl. Publ. Germany
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AND NUM. COUNTRY: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002 5.445	A1	2002 5.445	US 2002 5.445	2002 5.445
DE 2001 1015278	A1	2001 1015278	DE 2001 1015278	2001 1015278
EP 1117715	A1	2002 5.445	EP 1117715	2002 5.445
WO 2002 5.445	A1	2002 5.445	WO 2002 5.445	2002 5.445

AB: Polyhalogenated cinnamic acids and derivatives are prepared by reacting diacids with polyhalogenated amines in the presence of a palladium containing catalyst at about 5 to about 100 degree C. The resulting polyhalogenated cinnamic acid derivatives obtainable in this way are used for the preparation of polyhalogenated cinnamic acid derivatives which can be prepared according to the invention can be used for the preparation of monomers which are precursors for agro- and pharmaceutical chemicals and for substances having liquid crystalline properties.

131 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
 APPLICATION NUMBER: 2002 5.445 CAPLUS
 TITLE: Polyhalogen substituted cinnamic acids and derivatives and a process for the preparation of polyhalogen substituted cinnamic acids and derivatives
 INVENTOR(S): Linder, Walter; Kienle, Peter; Trachsel, Robert; Michael, Dockner
 PATENT APPLICANT(S): BASF AG, Appl. Publ. Germany
 INVENTOR(S): BASF AG, Appl. Publ. Germany
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY AND NUM. COUNTRY: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002 5.445	A1	2002 5.445	US 2002 5.445	2002 5.445
DE 2001 1015278	A1	2001 1015278	DE 2001 1015278	2001 1015278
EP 1117715	A1	2002 5.445	EP 1117715	2002 5.445
WO 2002 5.445	A1	2002 5.445	WO 2002 5.445	2002 5.445

AB: Polyhalogenated cinnamic acids and derivatives are prepared by reacting diacids with polyhalogenated amines in the presence of a palladium containing catalyst at about 5 to about 100 degree C. The resulting polyhalogenated cinnamic acid derivatives obtainable in this way are used for the preparation of polyhalogenated cinnamic acid derivatives which can be prepared according to the invention can be used for the preparation of monomers which are precursors for agro- and pharmaceutical chemicals and for substances having liquid crystalline properties.

131 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2002 ACS (Continued)
 AB: Nitrogen substituted hydroxylamines R1(R2)(R3)CHNOH [R1 R2 = H, or branched alkyl, or branched alkenyl, or branched alkyl, aryl] or their carboxylic acid salts (e.g., N-tert-butylhydroxylammonium acetate) are prepared in high and selectivity from nitrogen substituted aryl- or heteroaryl oxaziridines (I: X = aryl, heteroaryl; e.g., tert-butyl-3-phenyloxaziridine) by acid hydrolysis using an excess of acid (e.g., 5% sulfuric acid) in a water miscible solvent (e.g., methanol) followed by neutralization (e.g., aq. NaOH) and optional salification (e.g., aq. AcOH).

131 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS
 APPLICATION NUMBER: 2002 5.445 CAPLUS
 TITLE: Method for the preparation of 2-alkyl-1-aryloxaziridines and 2-alkyl-1-heteroaryloxaziridines
 INVENTOR(S): Kausen, Alexander; Langer, Bernhard; Michael, Dockner
 PATENT APPLICANT(S): BASF AG, Appl. Publ. Germany
 INVENTOR(S): BASF AG, Appl. Publ. Germany
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY AND NUM. COUNTRY: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002 5.445	A1	2002 5.445	WO 2002 5.445	2002 5.445
DE 2001 1015278	A1	2001 1015278	DE 2001 1015278	2001 1015278
EP 1117715	A1	2002 5.445	EP 1117715	2002 5.445
WO 2002 5.445	A1	2002 5.445	WO 2002 5.445	2002 5.445

AB: Oxaziridines (I: X = (substituted) C1-C6 aryl, heteroaryl; R1 R2 = (substituted) branched C1-C6 alkyl, C1-C6 cycloalkyl, C1-C6 alkenyl).

131 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2002 ACS
 APPLICATION NUMBER: 2002 5.445 CAPLUS
 TITLE: Method for the preparation of 2-alkyl-1-aryloxaziridines and 2-alkyl-1-heteroaryloxaziridines
 INVENTOR(S): Kausen, Alexander; Langer, Bernhard; Michael, Dockner
 PATENT APPLICANT(S): BASF AG, Appl. Publ. Germany
 INVENTOR(S): BASF AG, Appl. Publ. Germany
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY AND NUM. COUNTRY: PATENT INFORMATION:

AB: Oxaziridines (I: X = (substituted) C1-C6 aryl, heteroaryl; R1 R2 = (substituted) branched C1-C6 alkyl, C1-C6 cycloalkyl, C1-C6 alkenyl).

131 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2002 ACS (Continued)
 C-12-aryl) were prepd. by oxidn. of the corresponding aldimine
 SCHNCRIP29J (X and R1-R3 as above) with an arom. peracid or a salt
 thereof in the presence of a water-sol. base or solvent at
 0-100 degree.
 Thus, 2-propyl-4-nitrobenzalimine in MeOH was treated dropwise
 with 10% Na2CO3 at 18-22 degree., followed by addn. of 20 wt. %
 monoperoxyphthalic acid hexahydrate and stirring for 5 h at
 22-25 degree.,
 to give 58% 2-propyl-3-(4-nitrophenyl)oxaziridine. The disclosed
 method
 is economical, safe to operate, and can be carried out on an
 industrial
 scale.
 REFERENCE COUNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE
 FOR THIS
 RE FORMAT RECORD: ALL CITATIONS AVAILABLE IN THE

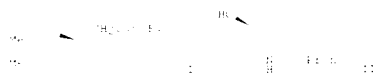
131 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 2001761906 CAPLUS
 DOCUMENT NUMBER: 135703669
 TITLE: Preparation of 4-hydroxy-3-nitrobiphenyl by
 nitration
 of 4-hydroxybiphenyl with nitric acid in the
 presence
 of glacial acetic acid
 INVENTOR(S): Behr, Postr; Dockner, Michael; Klausener,
 Alexander
 PATENT ASSISTANCE(S): Bayer Aktiengesellschaft, Germany
 SOURCE: PCT Int. Appl., 14 pp.
 CODES: E11000
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 EMBLs AND NUM. COUNT: 1
 PATENT INFORMATION:

ABSTRACT NO. 1001077041 KIND DATE APPLICATION NO. DATE
 1001077041 A1 20011001 WO 2001/EP1523 20011001
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BD, CA,
 CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GR, HU,
 IE, JP, KR, KZ, LG, LU, LV, MA, MD, ME, MG, MK, MN, MW, MX, MY, NZ, NO, NL, PL,
 PT, RU, SD, SE, SI, SK, SL, SM, ST, SV, TJ, TM, TR, TT, UA, UG,
 US, UZ, VN, YU ZA, ZW, AM, AZ, BY, BG, BE, MD, RU, TJ, TM
 FW: GR, GM, KE, SI, MW, MK, SD, SL, SZ, TZ, UG, ZW, AT, BE,
 CH, CL, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
 TR, BA, BJ, CF, CG, CI, CM, CR, CN, GW, ML, NP, NE, SN, TD, TG
 IE 2001761906 C1 20011210 DE 2000-10017818 200006410
 PRIORITY APPLIC. INFO.: DE 2000-10017818 A 20000410
 OTHER REFERENCES: CASREACT 115:301669
 ABSTRACT: 4-Hydroxy-3-nitrobiphenyl is prepared by heating of
 4-hydroxybiphenyl in
 nitric acid at the boiling temp. of AcOH followed by addn. of
 H2O2
 in AcOH to the reflux. Thus, a mixt. of 4-hydroxybiphenyl
 and AcOH
 was heated at 80 degree. and 240 mmHg followed by addn. of a mixt.
 of AcOH
 and AcOH to the reflux under stirring to give after treatment with
 H2O2
 4-hydroxy-3-nitrobiphenyl. The disclosed nitration increases the
 yield,
 selectivity, and purity of 4-hydroxy-3-nitrobiphenyl and allows
 carrying
 out of the synthesis without high dil.
 REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE
 FOR THIS

131 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2002 ACS (Continued)
 RECORD: ALL CITATIONS AVAILABLE IN THE
 RE FORMAT

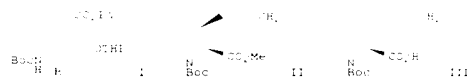
131 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2002 ACS
 ACCESSION NUMBER: 199816249 CAPLUS
 DOCUMENT NUMBER: 118112396
 TITLE: A Novel Stereodivergent Synthesis of Optically
 Pure
 cis- and trans-2-Substituted Proline
 Derivatives
 Erratum to document cited as CA120184331
 Sasaki, H. Amie; Dockner, Michael;
 Chiron, Angier; Euche, Claude; Potier, Pierre
 CORP/PAGE SOURCE: Institut de Chimie des Substances Naturelles,
 Gif-sur-Yvette France, 91198, Fr.
 SOURCE: Journal of Organic Chemistry (1997), 62(26),
 5188
 CDEX: JOCEAH, 15CM, 3(22-3263
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB: Page 746, column 1, lines 6-11 should read "While 5a exhibits a
 multiplet
 centered at 5.70 ppm which is attributed to one of the allylic
 protons,
 the counterpart of 5b appears somewhat downfield centered at 6.08
 ppm
 suggesting cis relationship between the allyl and the hydroxymethyl
 groups."

121. ANSWER 5 OF 6 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1995:124431 CAPLUS
 DOCUMENT NUMBER: 124144319
 TITLE: Enantioselective synthesis of 2,5-disubstituted pyrrolidine derivatives. Synthesis of (+)-pseudoephedrine
 AUTHOR(S): Dockner, Michael; Sasaki, N. Andre; Potier, Claude; Potier, Pierre
 CORPORATE SOURCE: Institut Chimie Substances Naturelles, France, Fr.
 SOURCE: Bulletin Annalen Emmerich, 1995, 1, 421-432
 PUBLISHER: Wiley-VCH
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE S: CASREACT 124144319
 GI



AB A novel methodology for the synthesis of any of the 4 stereoisomers of a 2,5-disubstituted pyrrolidine in optically pure form is described. It starts from readily available chiral building blocks, S-(+)-2-chloro-2-chloro-2-hydroxy-2-methyl-1,3-propanediol and glycerol deriv. 1 or their antipodes. The utility of this approach is demonstrated in the total synthesis of (+)-pseudoephedrine. (contd.HCl) (11) (contd.HCl), the structure of which was confirmed by x-ray anal.

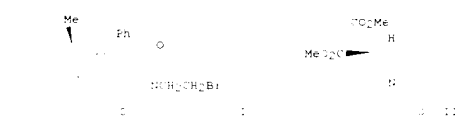
131. ANSWER 7 OF 9 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1997:124431 CAPLUS
 DOCUMENT NUMBER: 124144319
 TITLE: A Novel Stereodivergent Synthesis of optically pure cis- and trans-3-Substituted proline
 AUTHOR(S): Sasaki, N. Andre; Dockner, Michael; Chiriac, Ange et Riche, Claude; Potier, Pierre
 CORPORATE SOURCE: Institut de Chimie des Substances Naturelles, France, Fr.
 SOURCE: Sit sur Yvette France, 91190, Fr.
 PUBLISHER: Journal of Organic Chemistry, 1997, 62, 1111-1115
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE S: CASREACT 124144319
 GI



AB A new and efficient stereodivergent method for the prepn. of optically pure cis- and trans-3-substituted proline derivs. is described. The stereodivergency is effected simply by reversing the order of double alkylation of the chiral synthon 1. One-step pyrrolidine formation starting from 1 and 2-bromomethyl 3-allyl followed by allylation of the sulfonfyl carbanion leads to the optically pure (2S,3S)-cis-3-allylproline 11 as a major diastereomer in 7 steps. Contrary to this, when 1 is allylated first, then followed by heterocycle formation by treatment with 2-bromomethyl triflate, the optically pure (2S,3S)-trans-3-allylproline 111 is obtained as a single diastereomer in 5 steps. This sequence provides an efficient entry into enantiomerically and diastereomerically pure cis- and trans-3-substituted prolines which are considered as conformationally constrained alpha-amino acids.

121. ANSWER 5 OF 6 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1995:124431 CAPLUS
 DOCUMENT NUMBER: 124144319
 TITLE: Versatile synthesis of enantiomerically pure trans-2,5-disubstituted pyrrolidines
 AUTHOR(S): Dockner, Michael; Sasaki, N. Andre; Potier, Pierre
 CORPORATE SOURCE: Inst. Chim. Substances Naturelles, CNRS, Sit-sur-Yvette, 91190, Fr.
 SOURCE: Heterocycles, 1996, 42(2), 519-532
 PUBLISHER: HUYAM, ISSN: 0385-5414
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE S: CASREACT 124144319
 AB Enantiomerically pure trans-2A,5B-2,5-disubstituted pyrrolidine was synthesized starting from the versatile chiral synthon (R)-PhSO2CH2CH(NHBoc)CH2OCH2Ph and chiral 2,3-O-isopropylidene glycerol triflate.

131. ANSWER 7 OF 9 CAPLUS COPYRIGHT 2001 ACS
 ACCESSION NUMBER: 1995:124431 CAPLUS
 DOCUMENT NUMBER: 122116211
 TITLE: Enantiopure indolizidones and pyrrolizidones from maleic imide
 AUTHOR(S): Dockner, Michael; Meyer, Thorsten; Nemes, Peter; Otten, Martina G.; Winterfeldt, Ekkehard
 CORPORATE SOURCE: Inst. Organ. Chem., Univ. Hannover, Hannover, Germany
 SOURCE: Bulletin des Societes Chimiques Belges (1994), 103(7-8), 179-187
 PUBLISHER: BSCBAG, ISSN: 0137-9644
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE S: CASREACT 122116211
 GI



AB The alkylated maleic imide adducts of type 1 have been shown to undergo highly regioselective selective reducts. As with these compn. regioselectivity in further transformations including a thermal retro-cyclization process translates directly into enantioselectivity, various techniques were applied. The advanced cycloadducts obtained led to the enantiopure alkaloid precursors, e.g. 11, in very high yield.